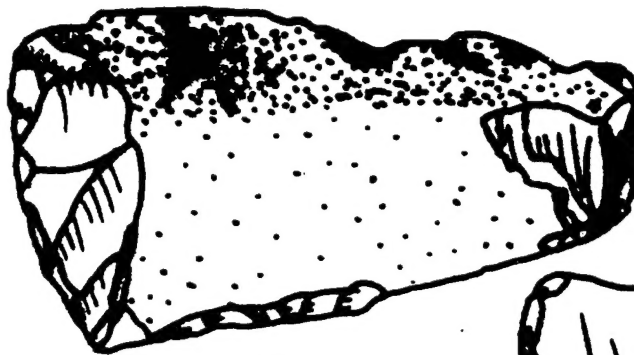




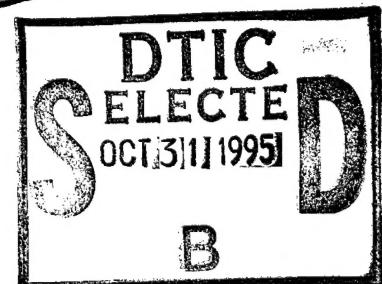
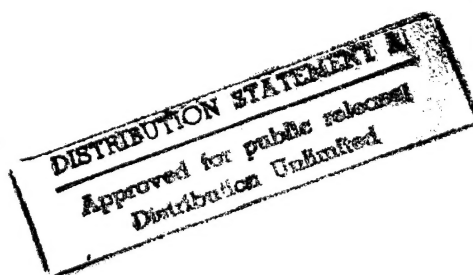
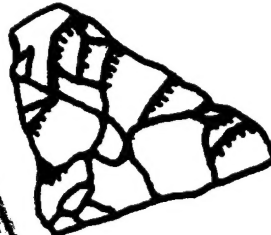
US Army Corps  
of Engineers  
Omaha District

**ARCHEOLOGICAL TESTING OF SITES 32MN228 AND 32MN331,  
WHITE EARTH BAY AREA OF LAKE SAKAKAWEA,  
MOUNTRAIL COUNTY, ND**

**VOLUME 2  
SUPPORTING DOCUMENTATION**



19951030 041



Prepared by:  
Augustana College  
Sioux Falls, South Dakota

DTIC QUALITY INSPECTED 5

AD NUMBER	DATE	DTIC ACCESSION NOTICE
1. REPORT IDENTIFYING INFORMATION		
A. ORIGINATING AGENCY USACE Omaha District		<b>REQUESTER:</b> 1. Put your mailing address on reverse of form. 2. Complete items 1 and 2. 3. Attach form to reports mailed to DTIC. 4. Use unclassified information only.  <b>DTIC:</b> 1. Assign AD Number. 2. Return to requester.
B. REPORT TITLE AND/OR NUMBER Archaeological Testing of Sites 32 mn 28 & 32 mn 33		
C. MONITOR REPORT NUMBER N/A		
D. PREPARED UNDER CONTRACT NUMBER DACW 45-88-P-0581		
2. DISTRIBUTION STATEMENT Unlimited (U)		

DTIC FORM 50  
DEC 80

PREVIOUS EDITIONS ARE OBSOLETE

1995 1030 041

ARCHEOLOGICAL TESTING OF SITES 32MN228 and 32MN331,  
WHITE EARTH BAY AREA OF LAKE SAKAKAWEA,  
MOUNTRAIL COUNTY, NORTH DAKOTA

VOLUME 2  
SUPPORTING DOCUMENTATION

by

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EDWARD J. LUECK

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and

L. ADRIEN HANNUS

JANUARY 1989

Prepared For  
U.S. ARMY CORPS OF ENGINEERS, OMAHA DISTRICT  
CONTRACT NUMBER DACW45-88-P-0581

ARCHEOLOGY LABORATORY OF THE CENTER FOR WESTERN STUDIES  
AUGUSTANA COLLEGE, SIOUX FALLS, SOUTH DAKOTA

ARCHEOLOGICAL CONTRACT SERIES NUMBER 42

# APPENDICES

- A. SCOPE-OF-WORK
- B. EXCAVATION UNIT FORMS
- C. PHOTOGRAPHIC LOG
- D. SUMMARY OF AUGER TESTS
- E. TABLES SUMMARIZING THE ARTIFACTS RECOVERED FROM  
TEST UNITS AT 32MN228 and 32MN331 - BY LEVEL
- F. ARTIFACT CATALOG SHEETS
- G. UPDATED SITE FORMS - 32MN228, 32MN331
- H. POLLEN REPORT

Accession For	
NTIS GRA&I	<input checked="" type="checkbox"/>
DTIC TAB	<input type="checkbox"/>
Unannounced	<input type="checkbox"/>
Justification	
perform 50	
by enclosed	
Distribution/	
Availability Codes	
Dist	Avail and/or Special
A-1	



APPENDIX A

SCOPE-OF-WORK

SCOPE OF WORK  
ARCHEOLOGICAL TESTING OF SITES 32MN228 AND 32MN331,  
WHITE EARTH BAY AREA OF LAKE SAKAKAWEA,  
MOUNTRAIL COUNTY, NORTH DAKOTA

ARTICLE I. PURPOSE AND SCOPE

1. The purpose of this work is to meet the Omaha District's obligation to Federal preservation legislation and associated implementing regulations. The most pertinent for this investigation are: Public Law 74-292, Historic Sites Act of 1935, as amended by Public Law 94-458; Public Law 86-523, Reservoir Salvage Act of 1960 as amended by Public Law 93-291; Public Law 89-665, National Historic Preservation Act of 1966 as amended by Public Law 96-515; Public Law 91-190, National Environmental Policy Act of 1969 as amended by Public Law 94-52; Executive Order 11593; implementing regulations 36 CFR Parts 60 and 61 Appendix A and 36 CFR Part 800. The cultural resources investigation shall be conducted in a professional manner. Cultural resources are defined as any site, building, district, structure, object, data, or material significant in history, architecture, archeology, or culture.

2. The work will consist of: (1) an exhaustive search of all background literature on the White Earth Bay area of Lake Sakakawea (former White Earth River-Missouri River confluence area) and the sites identified for testing; (2) field work to recover information contained in these sites and analysis of sufficient intensity to clearly establish whether or not either site is eligible for the National Register of Historic Places; (3) report preparation; (4) completion of National Register nomination forms; (5) a completed journal article; and (6) a public education program.

3. There are two (2) sites involved in the study. They are located at White Earth Bay of Lake Sakakawea in Mountrail County, North Dakota (see Encls. 1 and 2). The following list summarizes some of the information available regarding these sites. They are described in Haberman and Schneider (1975), Robson (1980)m, Grabasik (1986), and Winham et al. (1986),

<u>Site</u>	<u>Description</u>	<u>Cultural Period</u>	<u>Approximate Area (ha)</u>	<u>Depth (cm)</u>
32MN228	stone, circle, cultural material scatter	Unknown Prehistoric	11.0 ha (ca. 80% of this on private land)	Shallow
32MN331	cultural material scatter	Unknown Prehistoric	12.0 ha (ca. 20% of this on private land)	20 cm

a. Literature and Records Search. Information for the literature and records search shall be obtained from site forms, published and unpublished reports, theses, dissertations and manuscripts available for each site. Sources that must be checked are the State Historical Society of North Dakota, Bismarck; University of North Dakota, Grand Forks and Belfield; U.S. Army Corps of Engineers, Omaha District and Garrison Project offices;

Archeology Laboratory of the Center for Western Studies, Augustana College, Sioux Falls, South Dakota; and the National Park Service, Midwest Archeological Center, Lincoln. Individuals known to have knowledge concerning the sites being evaluated should be consulted to obtain information which may not be available in the written source.

The background research will be considered the starting point for all work. This research should establish a broad evaluating framework, based on a set of regional concerns and site specific topics, relating the White Earth River-Missouri River confluence to the Garrison region of the Middle Missouri subarea of the northern Great Plains.

b. Field Investigation. This investigation shall be of sufficient detail and intensity to clearly establish the cultural-historical framework, function, horizontal and vertical boundary, and integrity for each site. A combination of auger and/or shovel probing and test excavations will be conducted at both sites to accomplish the above objectives. A site map will be prepared for the site areas showing the location of these probes and excavation units in relation to extant features and the site datum. Testing shall proceed according to accepted methodology for recovery of archeological data. The contractor will use the established datums. Permanent datums will be made if these cannot be located. In conducting the field work, the possibility that 32MN228 and 32MN331 are parts of the same site should be investigated.

The field examination shall be conducted in close coordination with the Contract Administrator, North Dakota Field Archeologist, Garrison Dam/Lake Sakakawea Project Manager, and the Technical Officer. The field crew shall be subject to periodic onsite inspection by Corps representatives without prior notice. The Contractor shall not enter upon private property without prior knowledge of the Garrison Project Manager. Arrangements for securing rights-of-entry upon the privately-owned cottage lots (see Encl. 3) are the responsibility of the Contractor. These arrangements shall be coordinated with the Garrison Project Manager. All vehicular traffic within the project area shall be restricted to existing roads, if at all possible.

All auger/shovel probes and test excavations for these two sites shall be confined to Corps of Engineers land unless prior permission is obtained from the respective cottage lot owner(s) by the Contractor. All White Earth Bay cottage lots are privately owned except for lots 31, 47, 48, 52, 53, 55, 56, 57, 58, 59, 63, 64, 69 and 70 which are Corps owned (see Encl. 3).

In addition to preparing a site map of the remaining stone circle features of site 32MN228,, auger/shovel probing shall be conducted in each of the fourteen (14) Corps-owned cottage lots as part of determining the horizontal extent of the site and so as to potentially clear these lots for future sale. Excavation units shall be placed at 2-4 of the productive auger/shovel probes to provide information on the site's vertical extent and integrity. National Register eligibility of at least that portion of site 32MN228 on Corps land should be determined if such cannot be done for the entire site.

At least one 1 x 1 m excavation unit shall be placed in the area of site 32MN331 behind the existing bait shop where restrooms/showers and fish

cleaning house construction are proposed (see Encl. 6). A second 1 x 1 m excavation unit shall be placed at site 32MN331 where lithic material, burned bone and charcoal are exposed in the cutbank near the bait shop (see Encls. 3 and 4). In addition to the series of auger/shovel probes used to determine the horizontal extent of this site, auger probes should be placed at the proposed septic tank, sewage vault, and fish remains vault locations and along the three (3) drainage field lines (see Encl. 5), if their final locations have been determined. Excavation units should be placed at a minimum of 2 and a maximum of 6 of these positive auger/shovel probe locations. The units shall be excavated to at least 40 cm or to sterile soil.

The Contractor shall keep clear, legible, standard field records available and current for periodic review by the Technical Officer. These records shall include, but shall not necessarily be limited to: field notebooks, excavation forms, field maps, and photographs.

The Contractor shall pick up and retain those surface artifacts necessary to determine the cultural component(s), site function, subsistence and lithic technology. All cultural material recovered from subsurface testing will be retained. All artifacts retained shall be carefully recorded and stored during the field investigation.

At least one wall of each test unit displaying stratigraphic breaks and/or from which cultural materials have been retrieved shall be profiled. The elevation of stratigraphic breaks and cultural features shall be indicated on these profiles; all excavated fill shall be dry (1/2" mesh) or wet (1/16" mesh) screened by stratigraphic or arbitrary levels for recovery of artifacts, faunal and floral materials.

If features are found, samples should be collected for flotation and water screening, pollen, and radiocarbon analysis. The size and selection of these samples shall be at the discretion of the Principal Investigator. However, the size of the samples shall remain constant so that comparisons can be made. Any cultural features excavated (e.g., hearths, postholes) shall be recorded in terms of the test unit in which they were encountered, the stratigraphic or arbitrary level(s) in which they occur, and elevation. All features will be photographed and drawn. All material will be processed, cataloged, and curated in such a manner that they may be used if future mitigation is planned, or additional research is possible. All test units and auger/shovel probes will be backfilled.

The estimated number of auger/shovel probes (for Corps land only) and the recommended number of excavation units and their depth for each site is provided below to assist potential contractors in developing research strategies, logistical needs and costs. These recommendations are based on the information provided in Gnabasiak (1986) and Winham et al. (1986) and on the respective site forms. Actual field situations may dictate a change. The testing program may be altered only after consultation with the Technical Officer managing this contract.

Site	1 x 1 m Excavation Units	Estimated Maximum Depth of Excavation Units	Estimated Number of Auger/Shovel Probes (25m interval) (COE land only)
32MN228	2-4	40 cm	70 (4-6 per Corps-owned cottage lot)
32MN331	4-8	40 cm	206
	(possible 1-2 radiocarbon samples)		

c. Analysis. All material and information that is recovered will be processed and analyzed in such a manner that it provides answers to research topics in the proposal and is used to determine significance. Analysis of materials recovered from earlier research on the project area will be integrated with the present investigation. The proposal must detail the methods used for all analyses done for this contract.

Analysis of artifacts and data shall be conducted by or under the direct supervision of a qualified professional of the appropriate discipline (prehistoric archeologist for prehistoric artifacts and historic archeologist for historic artifacts). All diagnostic artifacts shall be documented with good quality black and white photographs which include a size scale or technical scaled line drawings.

All artifacts shall be permanently stored at a repository located within the boundaries of North Dakota mutually agreed to by the contractor and the Government. The contractor is responsible for shipping all collected artifacts and records. If the artifacts are stored with the State Historical Society of North Dakota, the contractor must complete all work involved with accessioning before the material is turned in. The archeological data and records must be made accessible to future researchers. All artifacts and data will be stored in containers clearly marked "Property of U.S. Army Corps of Engineers, Omaha District."

d. Investigation Report. The Contractor shall prepare a comprehensive investigation report which details the work done, the study rationale, the investigation results, recommendations for additional work, and management recommendations. The report shall include, but shall not be limited to, the following sections:

(1) Report Documentation Page, DD Form 1473. Complete all but sections 2 and 3. This form will be supplied by the Corps of Engineers.

(2) Title Page. This will contain the title, study type, location, project name and county, report date, name of contractor, author/Principal Investigator, and Corps of Engineers contract number.

(3) Abstract. A brief synopsis of the work conducted, number and types of cultural resources identified and overall significance, and a summary of the management recommendations, which shall not exceed 150 words.

(4) Introduction. Identify the sponsor and contractor, the purpose for the investigation, discuss the type of investigation performed and location, indicate the disposition of the artifacts, and original records or other data. Discuss the report organization.

(5) Regional Location and Environment. A detailed description of the site locations including physical features and terrain, past and present vegetation and fauna, field conditions, past and present land uses, weather conditions during field work. The study area must be discussed within the larger framework of the physical region at the confluence of the White Earth and Missouri Rivers.

(6) Previous Work. An enumeration and description of all previous cultural resources investigations conducted at each site, names of principal investigators, dates of the studies, study results, and an overview of the general adequacy and deficiencies of the past work. This section can be combined with the Results section.

(7) Overview. Detail the relationship of the cultural history of each site investigated to the regional cultural history of the study area, i.e., to the Garrison region of the Middle Missouri subarea (Lehmer 1971).

(8) Research Orientation. Develop and present theoretical and/or substantive goals and the methods to be used in achieving them. Address problems and testable hypotheses that are realistic for this level of study.

(9) Methods. Present the procedures used to accomplish the research design. Discuss how the field work was organized, scheduled, and undertaken. Detail the laboratory procedures and the methods used to analyze artifacts and other data recovered from the field.

(10) Results. The information provided in this section shall include, but shall not be limited to: site name (if any), site number, site type (lithic scatter, farmstead, mound, etc.), component(s) or probable component(s), elevation, a verbal description of the topographic position of the site, site size (or presumed size, strata and depth), present vegetation, ground surface visibility at time of field investigation (in percent), condition (address the known past, present, or projected impacts); discussion of the artifact and other analyses; describe features and their distribution by component; display site and important feature maps, artifacts in drawings and photographs. The maps shall be clear and professional quality. The submission of sketch maps is not acceptable for use in the report. Present the results of the research conducted for this contract. The discussion should clearly explain the outcome of the procedures used to address research topics. Successes and failures should be discussed in the same detail.

(11) Recommendations. The results of the analyses will be used to determine the eligibility of the sites to meet the National Register criteria for evaluation in 36 CFR 60.4. Recommendations for nomination to the National Register will be presented accordingly. National Register eligibility of at least that portion of site 32MNS228 on Corps land shall be determined if that for the entire site cannot be due to lack of private land access permission. Land management alternatives will be presented to stop, prevent, or reduce further impacts.

(12) References. Use the American Antiquity format for every publication, work, or interview cited in the report.



(13) Appendices. Completed forms used during the investigation, maps, photographs, and artifact catalogs.

(14) Completion of National Register nomination forms for those sites that appear to qualify for the National Register of Historic Places.

e. Article. The contractor shall submit a suitable article for submission to Plains Anthropologist, American Antiquity, other professional or popular journal on the results of this investigation. This article shall include the following information: name of sponsor, contract number, and brief discussion of the importance of this contract for our District responsibilities. The draft of the article shall be submitted no later than 30 calendar days after the draft copy of the report is sent for review. The article may focus on any facet of the research. The purpose of the article is to ensure a wider dissemination of the information derived from the study. The contractor is encouraged to communicate with the local people to inform them of the purpose of the investigation specifically and archeology in general.

f. Public Education. The contractor shall prepare and submit either a slide program with script or an edited video program, not to exceed 20 minutes in presentation, describing in terms understandable to the general public, the methods, purpose and results of the investigation. An edited draft of the program shall be submitted no later than 30 days after the draft review comments to the report are returned to the contractor. The draft will not be returned for revision if it is acceptable to the Government.

## ARTICLE II. CONTRACTOR, INSTITUTIONAL, OR CORPORATION QUALIFICATIONS

1. The minimum professional qualifications for the Principal Investigator, prehistoric and historical archeologists, and key consultants (e.g., architectural historian) are those given in 36 CFR Part 61, Appendix A - Professional Qualifications. Consultants and supervisory personnel not covered in this CFR who are hired or subcontracted for their special knowledge and expertise must carry academic and experiential qualifications in their own fields of competence. The guidelines in paragraph (b) of this regulation will apply. Such qualifications are to be documented by means of vitae or resume attachments submitted with the proposal or at a later time if the consultant has not been retained at the time of proposal.

2. Principal Investigator must periodically check on the progress of the work each week and be available to advise or instruct personnel should any problems develop. The Government may send a representative to inspect the various phases of the operations and review project records without prior notification. All aspects of the field examination shall be conducted by or under the direct supervision of a qualified archeologist.

3. Any change in personnel after the award of contract must be approved by the Contracting Officer. A person replacing a vacated position must have a comparable background and knowledge of the study area to maintain the same level of expertise and quality of performance. Failure to make an acceptable replacement could result in cancellation of the contract.

4. The Contractor must provide or demonstrate access to the following capabilities:

a. Adequate permanent field and laboratory equipment necessary to conduct operations defined in the scope of work. However, this qualification may be waived under circumstances of extreme need through negotiation.

b. Adequate laboratory and office space and facilities for proper treatment, analysis, and storage of specimens and records likely to be obtained from the project. This does not necessarily include such specialized facilities as pollen, geochemical, or radiological laboratories, but does include facilities sufficient to properly preserve or stabilize for any subsequent specialized analysis.

5. Persons working under this contract are considered to be carrying out official agency duties under the Federal land manager's direction, associated with the management of archeological resources and therefore are exempt from obtaining an Antiquities Permit per Section 5(c) of 32 CFR Part 229 - Protection of Archaeological Resources Uniform Regulations. The District shall ensure that Sections 5 and 8 are met through qualifications submitted in the proposal and contract documents respectively.

#### ARTICLE III. REPORT SPECIFICATIONS

1. Ten (10) copies of the completed reconnaissance survey report, in draft form, shall be submitted to the Omaha District Office. The draft will be edited for major spelling and grammatical errors prior to submittal for review and comment or it will be returned for correction. The draft report will be submitted 90 calendar days after the contractor is notified to proceed. The Government shall have a maximum of 45 calendar days to review and comment. The contractor shall have 45 calendar days to include the review comments into the final report and submit the final original report with all negatives, photographs, maps, charts, tables, and standard drawings to the Government. The final edited text shall be prepared on 8-1/2 X 11 inch bond paper, single spaced, and be "camera ready." The Government will reproduce the final report for distribution to appropriate state and Federal agencies per ER 1105-2-50 and interested parties. The contractor will receive 25 copies for personal use.

2. Neither the contractor nor his representatives will release or publish any sketch, photograph, report, or other material of any nature obtained or prepared under this contract without specific written approval of the Contracting Officer's Representative.

#### ARTICLE IV. GENERAL SAFETY REQUIREMENTS

The Service Contract General Provisions Section 41, Service Contract Act of 1965, as amended, subparagraph (g) requires the contractor not to permit work under this contract in unsanitary or dangerous locations. Proper health and safety standards (29CFR1925) are to be followed for the duration of the contract. These standards are to be used in conjunction with the "U.S. Army Corps of Engineers Safety and Health Requirements Manual," (EM 385-1-1, April 1981). The contractor will use the above to control or report hazards and injuries associated with equipment usage,



surveying, and excavation methodologies.

#### REFERENCES CITED

Gnabasik, Virginia

- 1986 White Earth Bay Cottage Site, Cultural Resources Survey, Garrison Dam/Lake Sakakawea Project, Mountrail County, North Dakota. Report on file, Planning Division, Omaha District, Corps of Engineers, Omaha, Nebraska.

Haberman, Thomas W. and Fred Schneider

- 1975 1974 Archaeological Survey of Portions of the Garrison Reservoir Shoreline, North Dakota. Prepared by University of North Dakota, Grand Forks for U.S.D.T. National Park Service under Contract No. CX-6000-4-0139.

Lehmer, Donald J.

- 1971 Class III Intensive Inventory for All Cultural Resources, White Earth Cottage Site Roadways and Boat Ramp, Mountrail County, North Dakota. Report on file, Planning Division, Omaha District, Corps of Engineers, Omaha, Nebraska.

Winham, R. Peter, Kerry A. Lippincott and Edward J. Lueck

- 1986 Cultural Resource Reconnaissance of U.S. Army Corps of Engineers Land Alongside Lake Sakakawea in Mountrail County, North Dakota. Two volumes in six parts. Draft report. Prepared by Archeology Laboratory of the Center for Western Studies, Augustana College, Sioux Falls, South Dakota for Omaha District, Corps of Engineers, Omaha, Nebraska under Contract No. DACW45-85-C-0285. (Final report in press.)

#### INSPECTION AND ACCEPTANCE

1. The Government may, at any reasonable time, inspect the progress of the work. Such inspection, however, shall not be performed in such a way as to unduly affect the progress of the work. Final acceptance of the work will be made upon successful completion of the work required under the contract.
2. Coordination meetings with the Contractor and the Technical Officer shall be scheduled as necessary. At least one meeting shall take place with representatives from the North Dakota State Historic Preservation Office. These meetings will not require additional travel by the Contractor.

#### DELIVERIES AND PERFORMANCE

1. Performance Period. The contractor shall complete the entire work and service, to the Government's satisfaction, not later than 180 calendar days from the contract award date. The proposal should indicate the need for additional or fewer calendar days.
2. Deliveries. The Contractor shall deliver all reports at no additional cost to the Government to the following address:

U.S. Army Corps of Engineers

Omaha District, ATTN: CEMRO-PD  
215 North 17th Street  
Omaha, NE 68102-4910

2. Method of Payment. Upon receipt and acceptance by the Government of the draft report, the contractor shall be paid seventy-five percent (75%) of the contract price. The remaining twenty-five percent (25%) of the contract price is payable upon Government acceptance of the final report.

#### EVALUATION FACTORS FOR AWARD

1. The offeror shall submit with the study outline a detailed statement of the method proposed for accomplishing the work, as well as the number and type of personnel proposed. This statement will become a part of any contract awarded and will be adhered to during performance unless changed by mutual agreement after award of the contract.

2. The offeror shall submit with the study outline a work sequence diagram that clearly illustrates the sequences of events that will be followed in the expected implementation of the project goals in the form of the flow chart. The information provided in the chart sheet includes a realistic schedule.

3. The offeror shall also submit with the study outline a breakdown of costs in sufficient detail to allow evaluation of the cost of each area of the work.

4. An evaluation of each study outline will be made to determine if the methods proposed for accomplishing the work and personnel to be employed are considered adequate and in conformance with the purchase order specifications. In order to be considered in the evaluation, qualification information, including vitae on key personnel to be assigned to the project, must be submitted with the study outline. The study outline must also demonstrate that prior work of a similar nature and scope has been successfully accomplished.

5. After evaluation of these and other factors, all study outlines meeting the basic requirements will be further considered as to price. The Government, however, reserves the right to reject any and all study outlines or to award a contract to other than the low offeror.

6. The following factors listed in descending order of importance shall be evaluated and rated. Price will be considered as important as Methodology.

##### a. Methodology

- (1) Procedure for Field Investigation
- (2) Analysis Procedure
- (3) Procedure for Literature and Records Search
- (4) Research Design
- (5) Work and Expenditure Schedules

b. Personnel

- (1) Professional Qualifications
- (2) Knowledge of the Study Area
- (3) Sufficient Number

c. Institution or Company

- (1) Facilities
- (2) Prior Experience

d. Price

ENCLOSURES

1. U.S.G.S. topographic quadrangle showing location of sites 32MN228 and 32MN331 in relation to White Earth Bay Cottage Site and White Earth Bay Recreation Area (from Gnabasik 1986).
2. Air photo of White Earth Bay Cottage Site and Recreation Area showing location of sites 32MN228 and 32MN331.
3. Plat map of White Earth Bay Cottage Site with sites 32MN228 and 32MN331 indicated (from Gnabasik 1986).
4. Proposed developments at White Earth Bay Recreation Area.
5. Proposed sewage disposal system at recreation area.
6. Proposes restrooms/showers and fish cleaning house at recreation area.
7. Site form for 32MN228.
8. Site form for 32MN331.

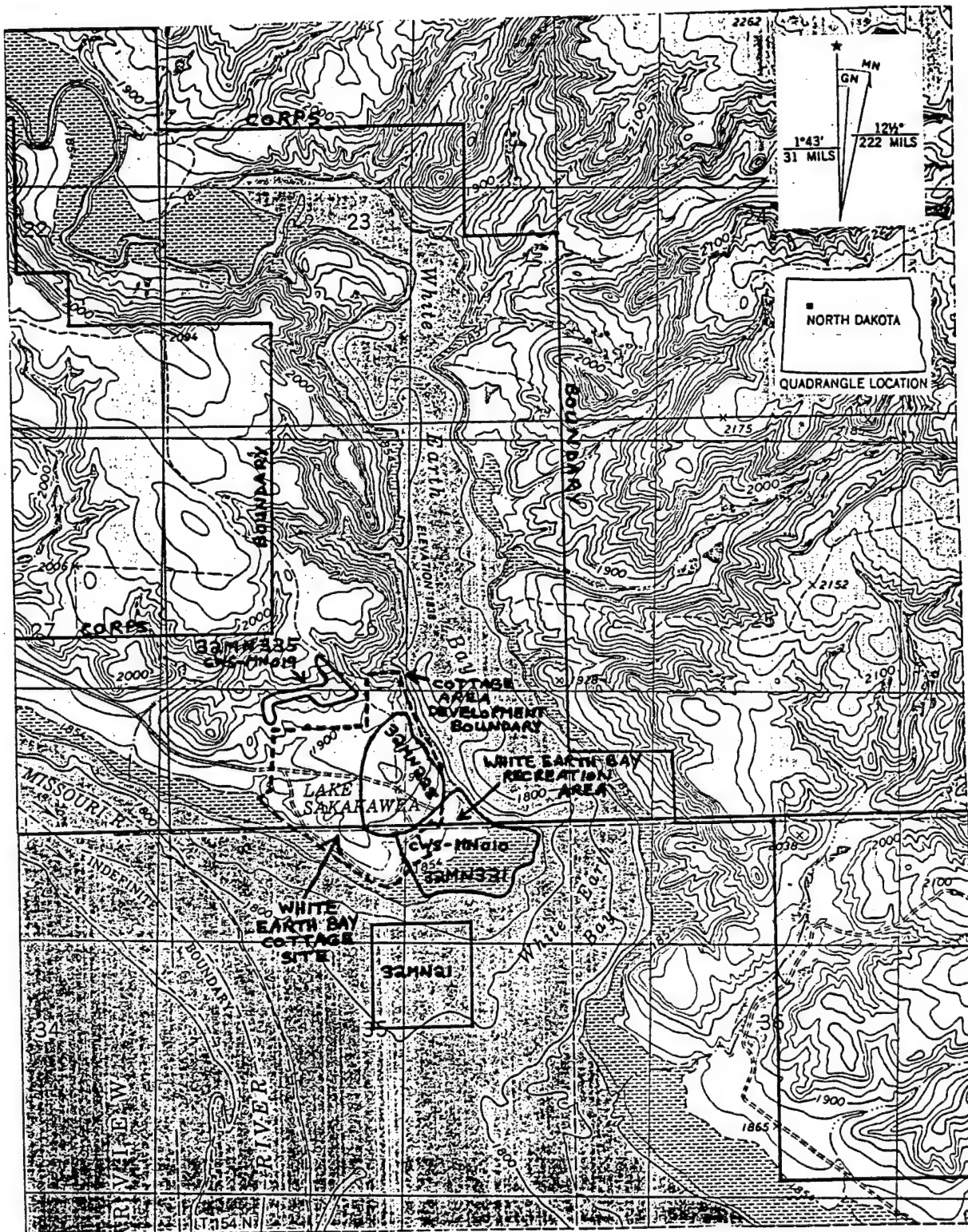


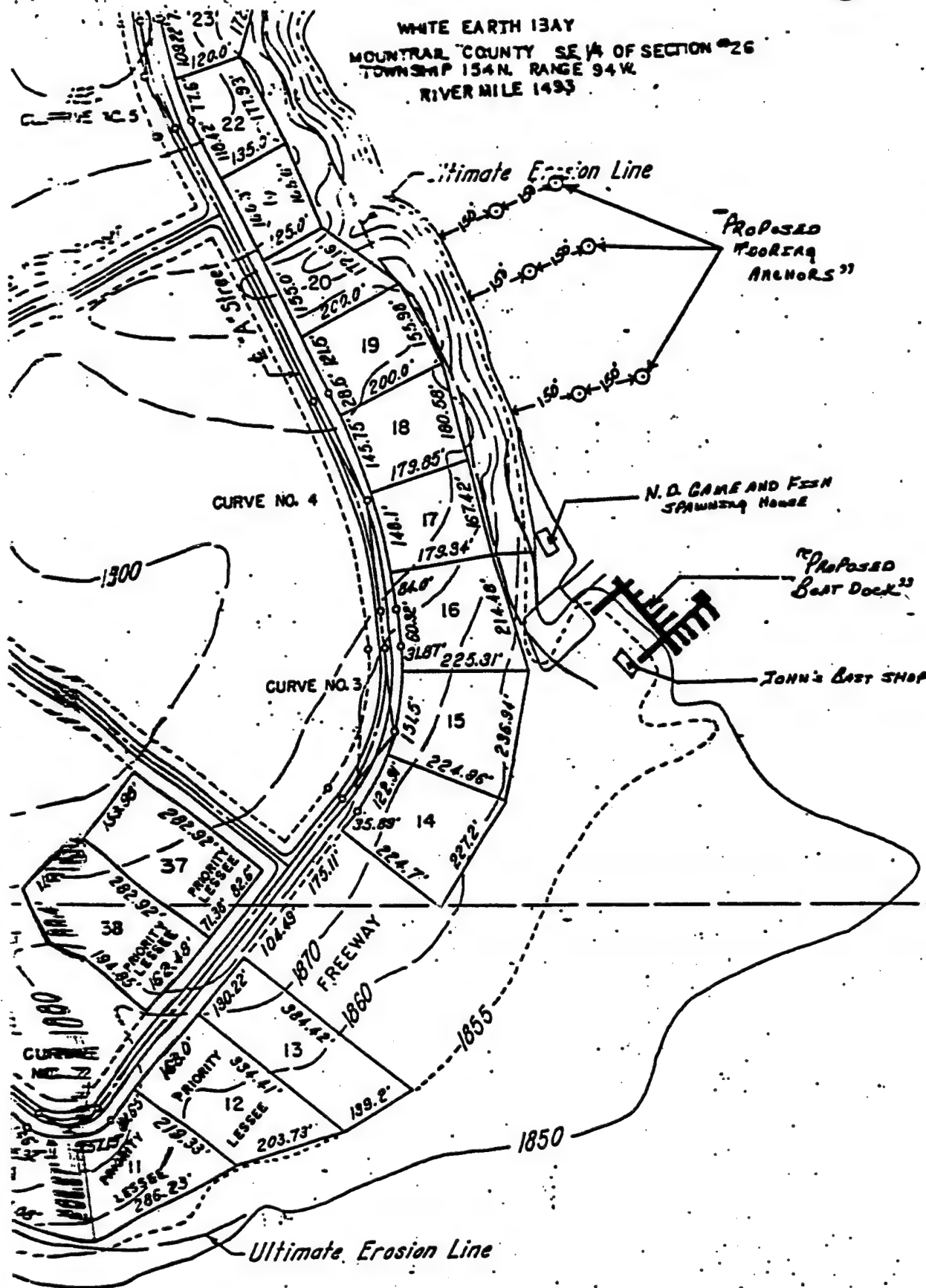
Figure 1. Map showing location of cultural resources sites in and immediately adjacent to the White Earth Bay Cottage Site. U.S.G.S. 7.5' Rat Lake quad, 1981 and 7.5' Rat Lake SW quad, 1981, 20 foot contour intervals. Legals: SE $\frac{1}{4}$ SW $\frac{1}{4}$ , SE $\frac{1}{4}$ SW $\frac{1}{4}$ SW $\frac{1}{4}$ , W $\frac{1}{2}$ SE $\frac{1}{4}$  and SW $\frac{1}{4}$ SE $\frac{1}{4}$ SE $\frac{1}{4}$ , Section 26 and NE $\frac{1}{4}$ NW $\frac{1}{4}$ , NE $\frac{1}{4}$ NW $\frac{1}{4}$ NW $\frac{1}{4}$  and N $\frac{1}{2}$ NE $\frac{1}{4}$ , Section 35, T154N, R94W, Mountrail County, North Dakota.





Figure 2. Sites 32MN228 and 32MN331  
at White Earth Bay Cottage  
Site and Recreation Area,  
Lake Sakakawea, North  
Dakota. Scale: 1" = 680'.

WHITE EARTH 13AY  
MONTANA COUNTY SE 1/4 OF SECTION 26  
TOWNSHIP 154N. RANGE 94W.  
RIVER MILE 1493



PLAN

SCALE 1" = 200'

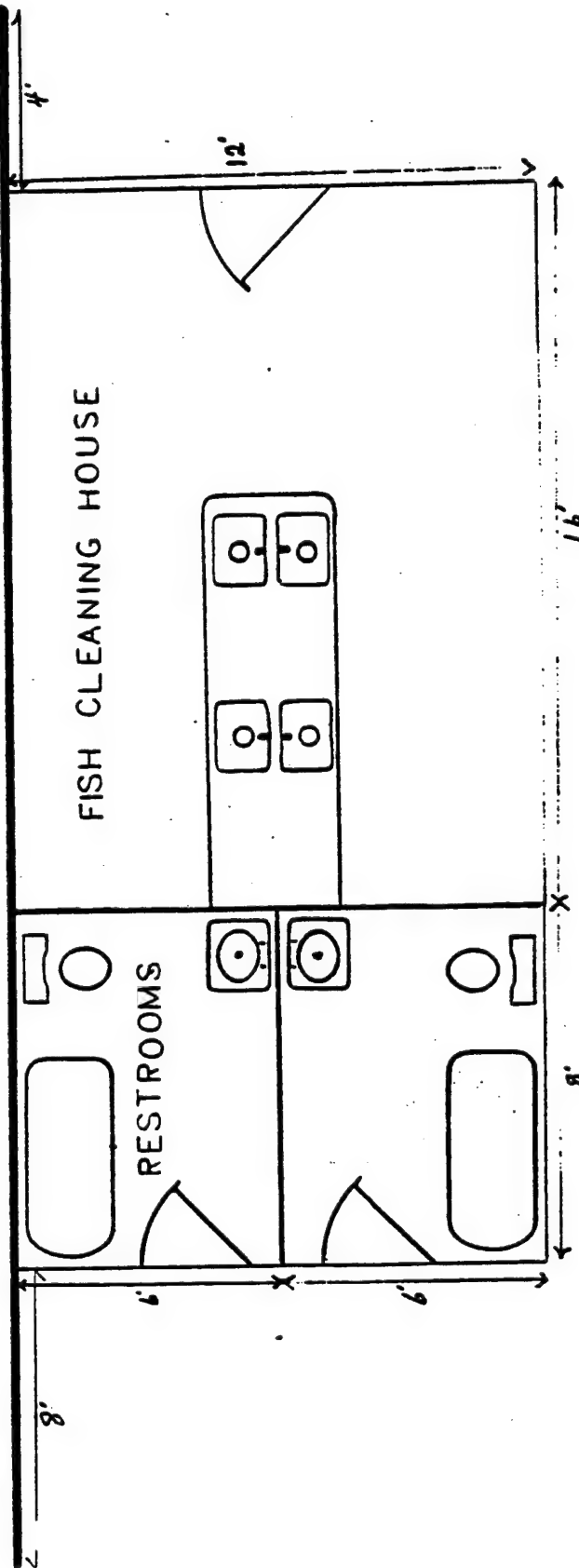
200'

400'

DATE: 6-26-76  
Rene J. Anderson  
Public Surveyor, Box 50, Park, ND 58054



# BAIT SHOP



10¢ PER LIVE POUND OF FISH  
CLEANED

\$2.00 PER SHOWER

BRUCE GUNDERSON  
STAR ROUTE BOX #81  
WHITE EARTH, ND 58794

DATE 3-30-87  
SHEET 2 OF 2



I. SITE I.D.

Field Code 32MN228 10  
 Site Name WHITE EARTH COTTAGE 38  
 Map Quad RAT LAKE 68

SITS #  
 State 32 County MN Site Number 228  
 11 13 15 18  
 LTL Twp R Sec QQQ QQ Q  
154 94 26 7 6  
 39 40 47 48 49 50  
 LTL<sup>a</sup> Twp<sup>a</sup> R<sup>a</sup> Sec<sup>a</sup> QQQ<sup>a</sup> QQ<sup>a</sup> Q<sup>a</sup>  
154 94 26 6 6 7  
 69 70 77 78 79 80

II. SITE DESCRIPTION

SITE TYPE		CULTURAL MATERIAL		Site Area
1	Conical Timber Lodge	2	Bone (worked)	5 <u>6.6.6.9.0.12</u> m <sup>2</sup>
3	CM Scatter	4	Ceramics (Native)	
13	Earthlodge Village	14	Charcoal	Cultural Depth
15	Earthworks	16	Copper (Native)	19 <u>21</u>
17	Fortification	18	Faunal Remains (skeletal)	Depth Indicator
22	Grave	23	Fire Cracked Rock	28 <u>28</u>
24	Hearth	25	Floral Remains	
26	Jump	27	Fossil	
29	Mound	30	Hide, Hair, Fur	CULTURAL/TEMPORAL AFFILIATION
31	Other Rock Features	32	Human Remains	37 <u>Paleo</u>
33	Pit	34	Projectile Point	40 <u>Archaic</u>
35	Quarry/Mine	36	Shell (worked)	43 <u>Late Prehistoric</u>
38	Rock Art	39	Stone, chipped	46 <u>47 Historic</u>
41	Rock Shelter	42	Stone, ground	50 <u>Period Unknown</u>
44	Stone Circle	45	Trade Good (non-Native)	
48	Trail (not recent)	49	Wood (worked)	
51	Miscellaneous	52	Other	
53 <u>Isolated Find</u>		CM Density	Basis for Dating	
		54 <u>1</u>	55 <u>1</u>	

III. ENVIRONMENT

Landform 1 6 Landform 2 9 Slope/Exposure 4 View, degree 3 View, distance 2  
 56 57 58 59 60 61 62  
 Elevation 579 m. Drainage System MISSOURI RIVER Dist Perm Water 153 m.  
 63 67 1 21 22 26  
 Perm Water Type 3 Dist Seas Water 28 Seas Water Type 33 Ecosystem 34  
 27 32 37

IV. C.R.M.

Ownership 2 Site Condition 3 Collection 3 Test 0 Excavation 0  
 38 39 40 41 42  
 Fieldwork Date 08.29.85 Management Recommendation 4  
 43 48 49  
 Additional Information 1 40

OFFICE USE ONLY

OFFICE USE ONLY  
 Soil Association 41 43 Ecozone 44 45 Area Signf 46 CR Type 47 Verified Site 48 Non-Site 49  
 State Registry 50 National Register 51 E C F T F MS Number 52 53 54 60

Coder 1-1-1-1-1-1

Date Coded 8-7-85

1. N  
 2. E  
 3. S  
 4. W  
 5. N  
 6. S  
 7. S  
 8. N  
 9.

Field Code \_\_\_\_\_

Descriptive Section \_\_\_\_\_

SITS Number 32MN228

Page 2

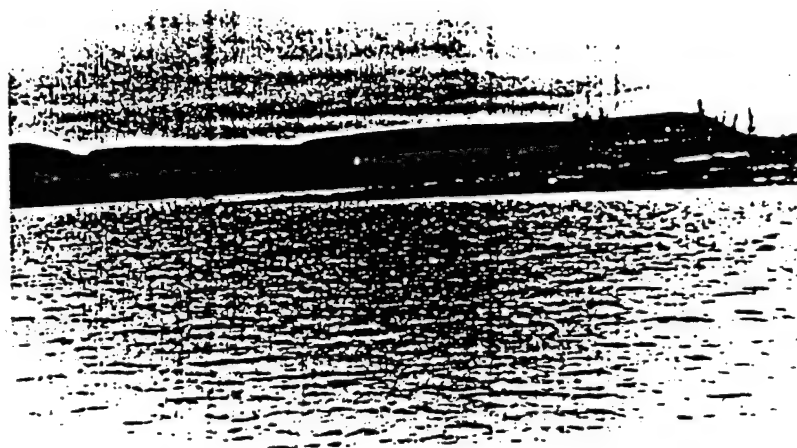
1. Access Just northwest of White Earth Recreation Area.  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
  2. Description of Site This site consists of stone circles - past and present - and lithic and burned bone scatters situated on the top and slope of low hills (or an old terrace) between the White Earth and Missouri rivers. Much of the site has been destroyed to varying degrees. The 25 stone circles recorded by Robson in 1980 lay on what is now private property. Most, if not all, of the stones have been removed by property owners. Two of five stone circles shown to the 1985 survey party also had the stones removed. Some of these appear to be some of the circles mentioned by Haberman in 1974, but the original site description does not allow positive identification. Lithic items and burned bone fragments were found in the ditch of the graded road to the north and west in 1985.  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
  3. Description of Cultural Materials (Quantify and identify) \_\_\_\_\_
    - a) In the north road: 3 KRF primary flakes; 3 KRF secondary flakes; 12+ KRF tertiary flakes (3 collected); 1 TRS tertiary flake; 10 burned bone fragments (4 collected)
    - b) In the west road: 1 KRF biface; 1 KRF scraper; 1 KRF tertiary flake; 1 TRS core\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
- c.33 # of items of cultural material observed 19 # Collected
4. Artifact Repository State Historical Society of North Dakota  
\_\_\_\_\_  
\_\_\_\_\_
  5. Description of Subsurface Testing None  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

6. Current Use of Site Recreation area.
7. Owner's Name/Address U.S. Army Corps of Engineers, Omaha District, Omaha, Nebraska
8. Vegetation Sparse weeds and short bunch grass on level terrace, and and gravel beach.
9. Cover (% of visible ground) 80% beach; 20% terrace.
10. Man-hours spent on site 1½
11. Project Title U.S. Army Corps of Engineers. Contract # DACW85-R-0006  
P.I. L. Adrien Hannus
12. Report Title Cultural Resource Reconnaissance of U.S. Army Corps of Engineers Land  
Alongside Lake Sakakawea in Mountrail Co. N.D. Author Winham, Lippincott and Lueck
13. Other Published References \_\_\_\_\_
14. Description of Collections Observed The owner of John's Bait Shop indicated the area at the tip of the beach as a well known artifact collecting area for several unidentified local collectors.
15. Owner-Address of Collections Observed \_\_\_\_\_
16. Statement of Integrity The site has suffered impacts from the fluctuating reservoir levels, construction of the recreation area and from local artifact collecting - overall integrity poor, but with potential for some buried deposits with consequent good integrity.
17. Statement of Significance The potential for a buried component gives this site a high potential significance for providing information on the prehistoric use of the area. Also there are several other sites in this vicinity which may interrelate together, providing a regional significance to this site.
18. Comments/References Although in the same area as 32MN228, this site appears to occupy a separate land area and contains no tipi rings, therefore, it was assigned a separate site category.  
It is possible that this area is not fully under the control of the Corps of Engineers with private ownership and leasing of part of the land.

TOPO:

Photocopy, in 8½"x11" format, the portion of the 7.5' U.S.G.S. topographic quadrangle that shows the location of the site and surrounding area. Mark the boundaries of the site on the photocopy.

Attach the photocopy as a separate page of the Site Form following the Map & Photo Section.



B.W. ☒ Color ☒

Photo I.D. Code B1/14, 15

C2/26, 27

Storage Location Corps of Engineers,

Omaha District

(1/15) Facing S

SKETCH MAP

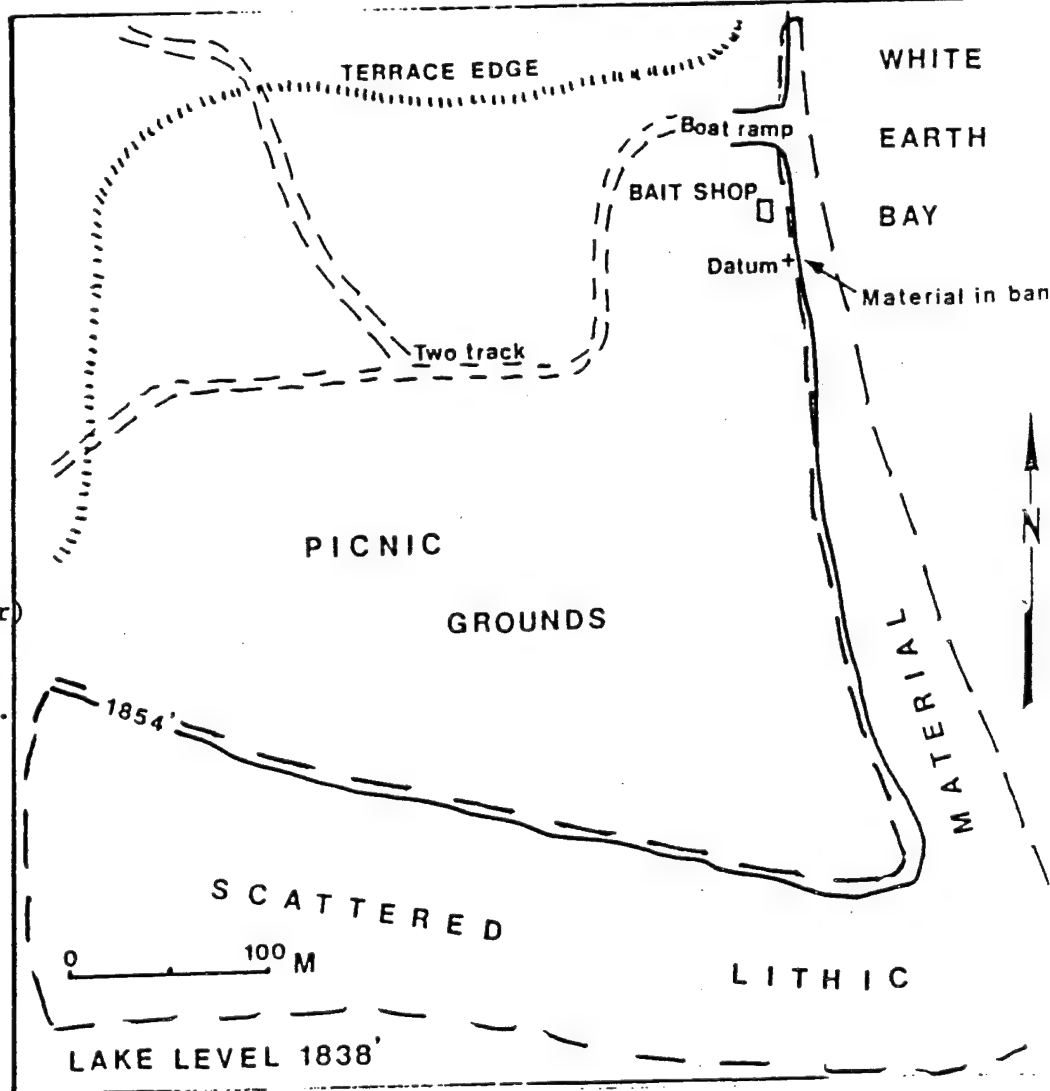
Sketch Map:

Include north arrow, individual numbered features, artifact loci, and road or street names.

Architectural sites: include roof ridge(s) and dimensions of site.

Map Key:

Site area (lithic scatter) restricted to beach and cut bank. May extend inland but not confirmed. Boundary shown by dotted line.



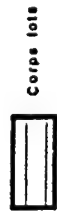
Map Scale: 1:4000

# 32MN 228

● Stone circles (Robson 1980)

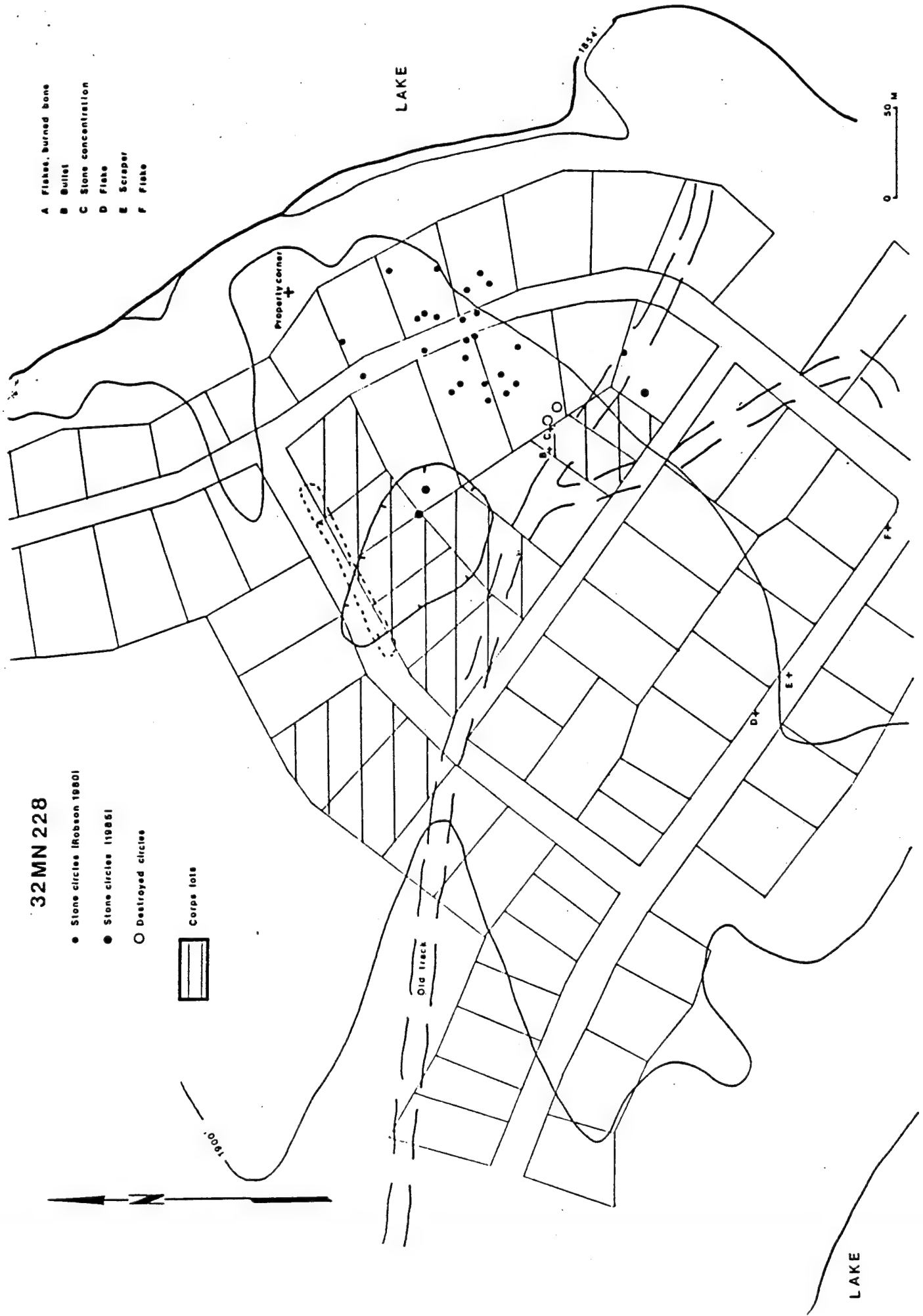
● Stone circles (1986)

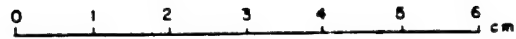
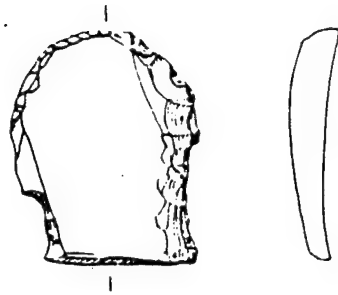
○ Destroyed circles



Corps lot

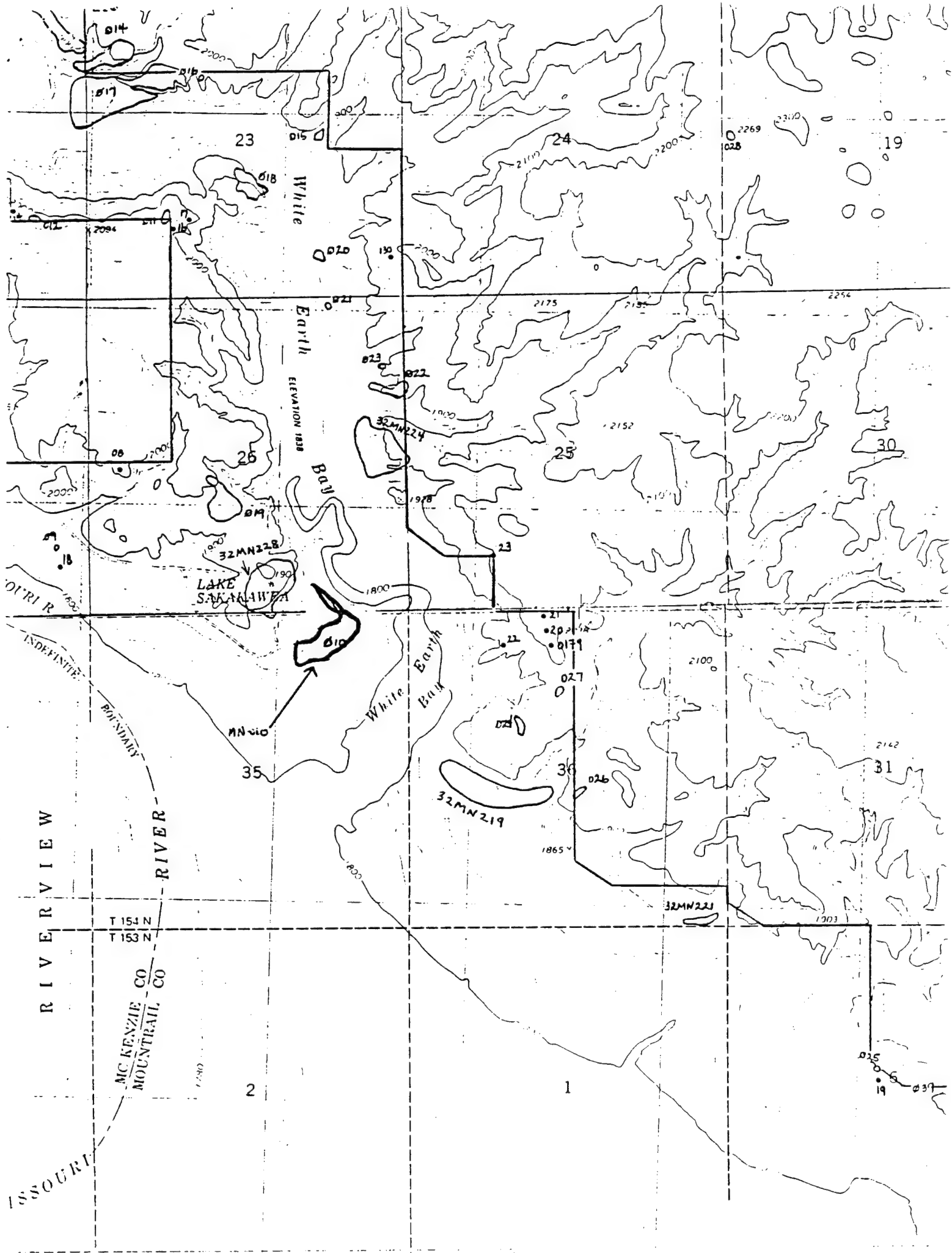
- A Flake, burned bone
- B Bullet
- C Stone concentration
- D Flake
- E Scraper
- F Flake





Transverse scraper from 32MN228.







# Archaeological Survey

RESERVOIR Lake Sakakawea SITE NO. 32MN228 Overgrown Site  
STATE North Dakota COUNTY Mountrail

1. MAP REFERENCE 1971 General Highway Map, Mountrail County 2. TYPE OF SITE Occupation-Tipi Ring

3. CULTURAL AFFILIATION Unknown

4. LOCATION Large area on point on West shore of White Earth Bay and North shore of Lake Sakakawea in the

SW $\frac{1}{4}$  of SEC. 26 T. 154N R. 94W

5. OWNER AND ADDRESS U.S. Army Corps of Engineers

6. PREVIOUS OWNERS Unknown

7. TENANT Commonly used as modern camp grounds.

8. INFORMANTS Found by survey.

9. PREVIOUS DESIGNATIONS FOR SITE None known.

10. SITE DESCRIPTION Two groups of tipi rings (one of three rings, other of four rings) and widely scattered lithic material appearing in recent dirt roads through the area.

11. POSITION OF SITE AND SURROUNDINGS Moderately sloping short grass prairie from higher ridges to North down to North shore of Lake Sakakawea.

12. AREA OF OCCUPATION Approximately  $\frac{1}{2}$  section as designated here.

13. DEPTH AND CHARACTER OF FILL Modern soil to undetermined depth (probably not great.)

14. PRESENT CONDITION Very heavily overgrown with thick stand of grasses. No lithic material found on beaches in this area at present.

15. PREVIOUS EXCAVATIONS None known.

16. MATERIAL COLLECTED Flakes and possible core of Knife River Flint, flakes of gray metamorphised shale, flake of brown chert, agate, and white quartzite, no artifacts.

17. MATERIAL OBSERVED Additional flakes, tipi rings.

18. MATERIAL REPORTED AND OWNER None

19. RECOMMENDATIONS FOR FURTHER WORK Area should be watched in future, perhaps test excavation. area seems a good setting, terrace above what was White Earth River overlooking the Missouri River valley.

20. PHOTOGRAPH NOS. T.W.H. 74 Black and White roll 2 #10

21. MAP OF SITE Sketch on back

DATE June 10, 1974

STATE

COUNTY

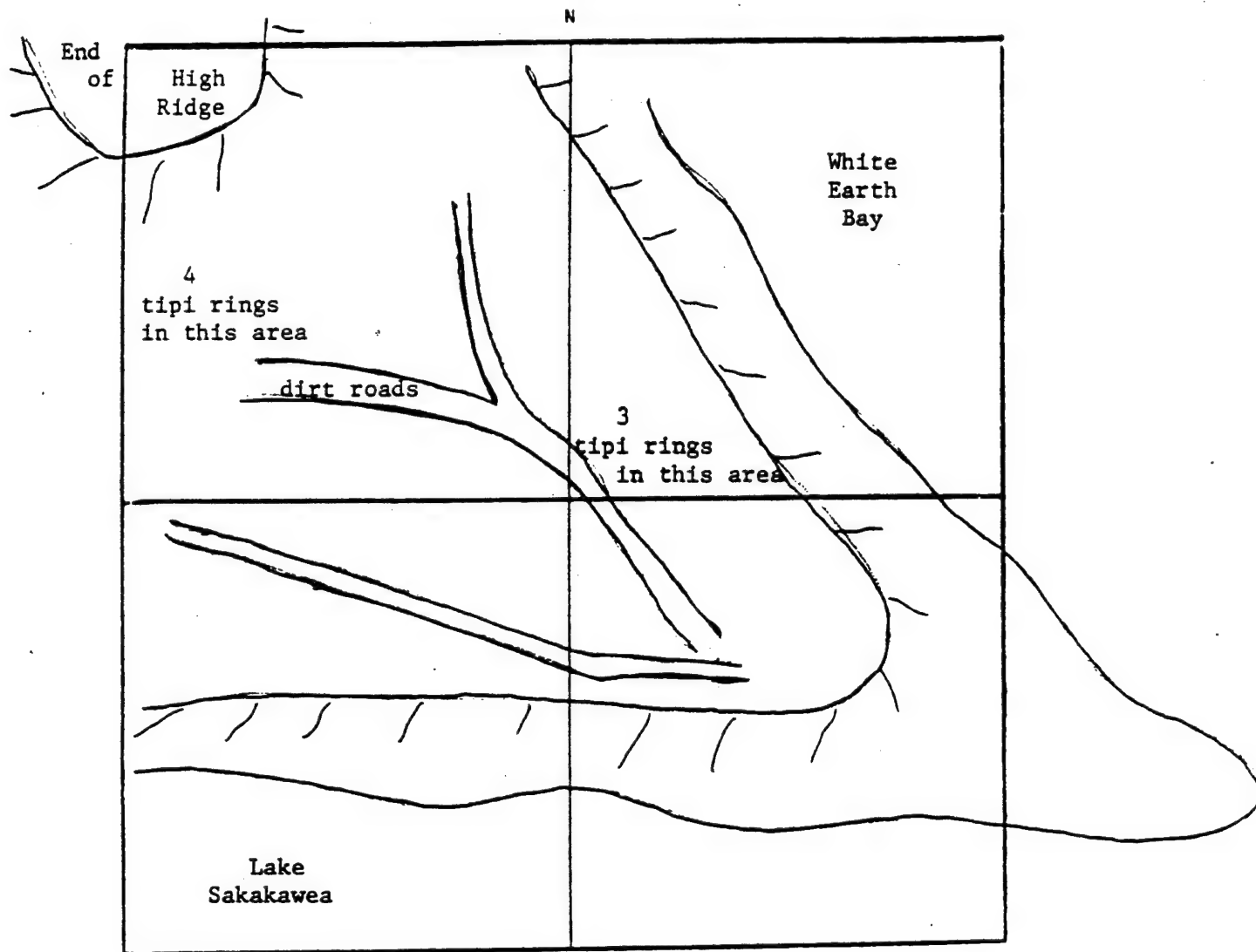
RESERVOIR

SITE NO.

SITE NO. 32MN228 Overgrown Site

MAPPED BY T.W.H.

DATE 6-10-74



SCALE Approximately  $\frac{1}{4}$  section.

22. APPROACH TO SITE: By boat - point on West side of White Earth Bay at mouth of bay, or by road leading South along West side of White Earth River (see map reference).

23. REMARKS: A rather extensive area is designated here as one site. The heavy floral cover in the area limited our investigation and interpretation of the area. Flakes were found along dirt roads through the area and along edge of slope leading to beach at East side of the site. The area seems potentially good but cultural material may be scattered over a wide area. Surface should be rechecked if ever more open and beach watched if there is significant encroachment by erosion.

NDCRS SITE FORM  
 ARCHEOLOGICAL SITES

Page 1

I. SITE I.D.

Field Code MNO10 State 32 County 11 Site Number 15  
 Site Name \_\_\_\_\_ LTL Twp R Sec QQQ QQ Q  
 Map Quad SW LTL<sub>a</sub> Twp<sub>a</sub> R<sub>a</sub> Sec<sub>a</sub> QQQ<sub>a</sub> QQ<sub>a</sub> Q<sub>a</sub>  
51 68 69 70 77 78 79 80

1. N $\frac{1}{2}$
2. E $\frac{1}{2}$
3. S $\frac{1}{2}$
4. W $\frac{1}{2}$
5. NE
6. SE
7. SW
8. NW
9. C

II. SITE DESCRIPTION

SITE TYPE		CULTURAL MATERIAL		Site Area
1	<input type="checkbox"/> Conical Timber Lodge	2	<input type="checkbox"/> Bone (worked)	5 <u>200.00</u> 12 m <sup>2</sup>
3	<input type="checkbox"/> CM Scatter	4	<input type="checkbox"/> Ceramics (Native)	Cultural Depth
13	<input type="checkbox"/> Earthlodge Village	14	<input type="checkbox"/> Charcoal	19 <u>2.0</u> 21
15	<input type="checkbox"/> Earthworks	16	<input type="checkbox"/> Copper (Native)	Depth Indicator
17	<input type="checkbox"/> Fortification	18	<input type="checkbox"/> Faunal Remains (skeletal)	28 <u>2</u>
22	<input type="checkbox"/> Grave	23	<input type="checkbox"/> Fire Cracked Rock	CULTURAL/TEMPORAL AFFILIATION
24	<input type="checkbox"/> Hearth	25	<input type="checkbox"/> Floral Remains	37 <input type="checkbox"/> Paleo
26	<input type="checkbox"/> Jump	27	<input type="checkbox"/> Fossil	40 <input type="checkbox"/> Archaic
29	<input type="checkbox"/> Mound	30	<input type="checkbox"/> Hide, Hair, Fur	43 <input type="checkbox"/> Late Prehistoric
31	<input type="checkbox"/> Other Rock Features	32	<input type="checkbox"/> Human Remains	46 <input type="checkbox"/> 47 Historic
33	<input type="checkbox"/> Pit	34	<input type="checkbox"/> Projectile Point	50 <input type="checkbox"/> Period Unknown
35	<input type="checkbox"/> Quarry/Mine	36	<input type="checkbox"/> Shell (worked)	
38	<input type="checkbox"/> Rock Art	39	<input type="checkbox"/> Stone, chipped	
41	<input type="checkbox"/> Rock Shelter	42	<input type="checkbox"/> Stone, ground	
44	<input type="checkbox"/> Stone Circle	45	<input type="checkbox"/> Trade Good (non-Native)	
48	<input type="checkbox"/> Trail (not recent)	49	<input type="checkbox"/> Wood (worked)	
51	<input type="checkbox"/> Miscellaneous	52	<input type="checkbox"/> Other	
53 <input type="checkbox"/> Isolated Find		CM Density	Basis for Dating	
		54 <u>5</u>	55 <u>1</u>	

III. ENVIRONMENT

Landform 1	Landform 2	Slope/Exposure	View, degree	View, distance
<u>56</u>	<u>15</u>	<u>23</u>	<u>2</u>	<u>1</u>
Elevation	Drainage System			Dist Perm Water
<u>5.65</u> m.	<u>MISSOURI RIVER</u>			<u>1.0</u> m.
Perm Water Type	Dist Seas Water	Seas Water Type	Ecosystem	
<u>2</u>	<u>28</u> <u>32</u>	<u>33</u>	<u>34</u> <u>37</u>	

IV. C.R.M.

Ownership	Site Condition	Collection	Test	Excavation
<u>2</u>	<u>4</u>	<u>3</u>	<u>2</u>	<u>2</u>
Fieldwork Date	Management Recommendation			
<u>43</u> <u>48</u>	<u>4</u>			
Additional Information				

OFFICE USE ONLY

Soil Association	Ecozone	Area Signf	CR Type	Verified Site	Non-Site
<u>41</u> <u>43</u>	<u>44</u> <u>45</u>	<u>46</u>	<u>47</u>	<u>48</u>	<u>49</u>
State Registry	National Register	E C F	T F	MS Number	
<u>50</u>	<u>51</u>	<u>2</u>	<u>2</u>	<u>54</u> <u>60</u>	

Coder

Date Coded

I. SITE I.D.

Field Code	State		County		Site Number	
<u>MN 010</u>	<u>3</u>	<u>2</u>	<u>11</u>	<u>13</u>	<u>15</u>	<u>18</u>
Site Name	LTL	Twp	R	Sec	QQQ	QQ Q
<u>19</u>	<u>39</u>	<u>40</u>	<u>15</u>	<u>40</u>	<u>94</u>	<u>35</u>
Map Quad	LTL	Twp	R	Sec	QQQ	QQ Q
<u>51</u>	<u>69</u>	<u>70</u>	<u>15</u>	<u>40</u>	<u>94</u>	<u>35</u>

II. SITE DESCRIPTION

SITE TYPE		CULTURAL MATERIAL		Site Area
1	<input type="checkbox"/> Conical Timber Lodge	2	<input type="checkbox"/> Bone (worked)	<u>5</u> <u>12 m<sup>2</sup></u>
3	<input type="checkbox"/> CM Scatter	4	<input type="checkbox"/> Ceramics (Native)	Cultural Depth
13	<input type="checkbox"/> Earthlodge Village	14	<input type="checkbox"/> Charcoal	<u>19</u> <u>21</u>
15	<input type="checkbox"/> Earthworks	16	<input type="checkbox"/> Copper (Native)	Depth Indicator
17	<input type="checkbox"/> Fortification	18	<input type="checkbox"/> Faunal Remains (skeletal)	<u>28</u>
22	<input type="checkbox"/> Grave	23	<input type="checkbox"/> Fire Cracked Rock	CULTURAL/TEMPORAL AFFILIATION
24	<input type="checkbox"/> Hearth	25	<input type="checkbox"/> Floral Remains	37 <input type="checkbox"/> Paleo
26	<input type="checkbox"/> Jump	27	<input type="checkbox"/> Fossil	40 <input type="checkbox"/> Archaic
29	<input type="checkbox"/> Mound	30	<input type="checkbox"/> Hide, Hair, Fur	43 <input type="checkbox"/> Late Prehistoric
31	<input type="checkbox"/> Other Rock Features	32	<input type="checkbox"/> Human Remains	46 <input type="checkbox"/> 47 Historic
33	<input type="checkbox"/> Pit	34	<input type="checkbox"/> Projectile Point	50 <input type="checkbox"/> Period Unknown
35	<input type="checkbox"/> Quarry/Mine	36	<input type="checkbox"/> Shell (worked)	
38	<input type="checkbox"/> Rock Art	39	<input type="checkbox"/> Stone, chipped	
41	<input type="checkbox"/> Rock Shelter	42	<input type="checkbox"/> Stone, ground	
44	<input type="checkbox"/> Stone Circle	45	<input type="checkbox"/> Trade Good (non-Native)	
48	<input type="checkbox"/> Trail (not recent)	49	<input type="checkbox"/> Wood (worked)	
51	<input type="checkbox"/> Miscellaneous	52	<input type="checkbox"/> Other	
53 <input type="checkbox"/> Isolated Find		CM Density	Basis for Dating	
		54 <input type="checkbox"/>	55 <input type="checkbox"/>	

III. ENVIRONMENT

Landform 1	Landform 2	Slope/Exposure	View, degree	View, distance
<u>56</u>	<u>57</u> <u>58</u>	<u>59</u> <u>60</u>	<u>61</u>	<u>62</u>
Elevation	Drainage System	Dist Perm Water		
<u>63</u> <u>67</u> m.	<u>1</u>	<u>21</u>	<u>22</u>	<u>26</u> m.
Perm Water Type	Dist Seas Water	Seas Water Type	Ecosystem	
<u>27</u>	<u>28</u> <u>32</u>	<u>33</u>	<u>34</u> <u>37</u>	

IV. C.R.M.

Ownership	Site Condition	Collection	Test	Excavation
<u>38</u>	<u>39</u>	<u>40</u>	<u>41</u>	<u>42</u>
Fieldwork Date	Management Recommendation			
<u>43</u> <u>48</u>	<u>49</u>			
Additional Information				
<u>1</u> <u>40</u>				

OFFICE USE ONLY

Soil Association	Ecozone	Area Signf	CR Type	Verified Site	Non-Site
<u>41</u> <u>43</u>	<u>44</u> <u>45</u>	<u>46</u>	<u>47</u>	<u>48</u>	<u>49</u>
State Registry	National Register	E C F	T F	MS Number	
<u>50</u>	<u>51</u>	<u>52</u>	<u>53</u>	<u>54</u>	<u>60</u>

Coder

Date Coded

1. N  
2. E  
3. S  
4. W  
5. NE  
6. SE  
7. SW  
8. NW  
9. C

1. Access From New Town drive N and W on Highway 1804 ca. 31 miles to the White Earth Bay access road. Drive S on that road ca. 8 miles to John's Bait shop on the right (west) bank of White Earth Bay. The site extends from the public boat ramp in the cut bank and beach as far S and E as the point with some material extending along the beach to the W.

2. Description of Site The site is a scatter of lithic material along the beach of White Earth Bay and Lake Sakakawea. There is also lithic material, burned bone and charcoal exposed at 10-20cm below the surface in a cut bank between John's Bait Shop and the boat ramp. The soil is a sand/gravel beneath a sandy loam.

3. Description of Cultural Materials (Quantify and identify) A concentration of rosy pink chert flakes, burned unidentifiable bone and charcoal were found 10-20cm below the surface at the north end of the site area. Knife River Flint:

14 tertiary flakes, 1 graver. Tongue River Silica: 1 tertiary flake.

Gray porcellanite: 1 tertiary flake. Gray chert: 1 secondary flake.

40+ # of items of cultural material observed 1 # Collected

4. Artifact Repository State Historical Society of North Dakota

5. Description of Subsurface Testing None

Field Code \_\_\_\_\_

Descriptive Section \_\_\_\_\_

Page 3

6. Current Use of Site Development
7. Owner's Name/Address U.S. Army Corps of Engineers, Omaha District, Omaha, Nebraska.
8. Vegetation Wheatgrass-needlegrass (Agropyron - Stipa)
9. Cover (% of visible ground) 0-70% (70% in road ditches)
10. Man-hours spent on site c. 2
11. Project Title U.S. Army Corps of Engineers. Contract # DACW85-R-0006  
P.I. L. Adrien Hannus
12. Report Title Cultural Resource Reconnaissance of U.S. Army Corps of Engineers Land  
Alongside Lake Sakakawea in Mountrail Co. N.D. Author Winham, Lippincott and Lueck
13. Other Published References Class III Intensive Inventory for all Cultural Resources,  
White Earth Cottage Site Roadways and Boat Ramp, Mountrail County, ND by Robson
14. Description of Collections Observed \_\_\_\_\_
15. Owner-Address of Collections Observed \_\_\_\_\_
16. Statement of Integrity Much (approximately 80%) of the known site area lies on  
private lots and it appears, from a couple of private landowners' accounts, that  
the stones from many of these circles have been removed. However, the soil may not  
have been turned in much of the private area. Undisturbed deposits, with and  
without stone circles, lie on Corps lands. The presence of stone tools, extensive  
lithic debris and burned bone shows relatively productive deposits. Items seem to be
17. Statement of Significance Much of the known site area has been destroyed or  
extensively modified, elevating the importance of the remaining undisturbed  
(or relatively undisturbed) deposits, some of which lie on Corps lots. The  
site location would seem to be important strategically - lying near the confluence  
of two major permanent streams. The presence of independently datable materials  
(burned bone), stone tools, and lithic remains from several stages of reduction  
suggest varied and productive deposits.
18. Comments/References Haberman, T.W., and F. Schneider. 1974 Archaeological Survey of  
Portions of the Garrison Reservoir Shoreline, North Dakota. Dept. of Anthropology  
and Archaeology, University of North Dakota, Grand Forks. Contribution No. 29.

NORTH DAKOTA CULTURAL RESOURCES SURVEY  
Continuation Form

Page 4

Site Number 32MN228

Item No.

16

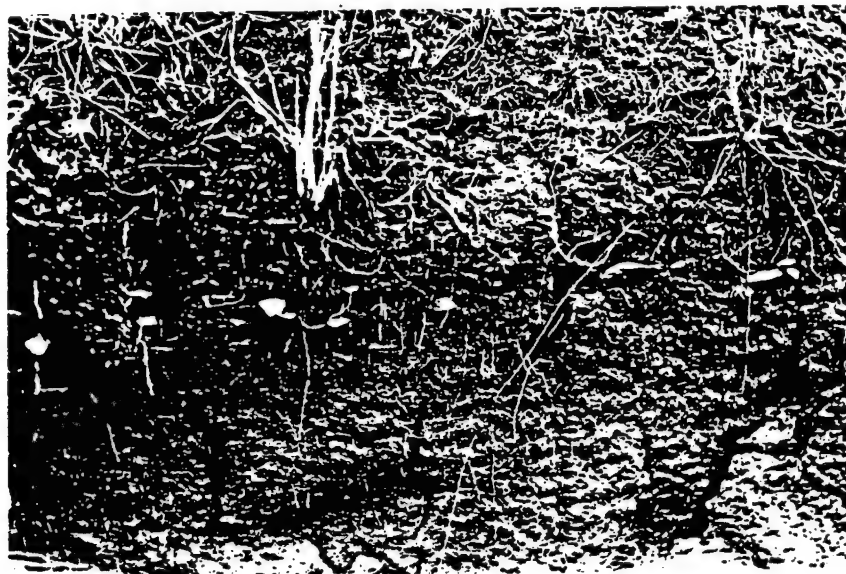
(Integrity): at least slightly buried.

Recorded by Kerry Lippincott

Date 8/29/85



MN-010



B1/14 Concentration of flakes in cut bank, Facing W.

APPENDIX B

EXCAVATION UNIT FORMS

Excavation Record - Unit Summary

1. Site 32 MN 331
2. Excavation Unit 1
3. Number of levels excavated, describe procedures 4 - 10cm levels  
\_\_\_\_\_  
\_\_\_\_\_
4. Unit datum in SW corner 5. Depth of floor from unit datum 40cm
6. Depth of unit datum from site datum \_\_\_\_\_
7. Features within unit None  
\_\_\_\_\_  
\_\_\_\_\_
8. Features indicated on floor None  
\_\_\_\_\_  
\_\_\_\_\_
9. Features indicated on profiles None - FCR in East Wall  
\_\_\_\_\_  
\_\_\_\_\_
10. Profiles recorded: N    S    E   ✓   W    other
11. Floorplans drawn Level 4 - Rodent Run(s)
12. Summary remarks and other data concerning unit Mtls. primarily  
0-20cm bs; too many passerbys.  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
13. Excavator(s) EJL
14. Dates excavated 4/28/88
15. Recorded by EJL
16. Date 4/28-29/88

Excavation Record - Level Summary

1. Site 32MN331 2. Excavation Unit 1  
3. Level 1 4. Depth 0-10 cm bs  
5. Excavated by EJL 6. Date 4/28/88  
7. Floorplan drawn? No 8. Screened? Yes (1/8" & 1/4")  
9. Wall trowelled or checked for features? Yes  
10. Floor trowelled or checked for features? Yes  
11. Features present or indicated None  
  
12. Nature of soil <sup>(Dry)</sup> 7.5YR 4/2 Brown/Dark Brown - dry, getting a little moisture at bottom - sandy silt.  
13. Summary of artifacts recovered Potsherd (2 halves) (trailed?); KRF: core, 6 tertiary flakes; 1 secondary flake; 2 window or bottle glass frags. (clear); two cigarette filters.  
14. Nonartifactual debris ca. 2 pints crushed rock (pink shale?) & gravel c 1/8 - 2 in. in diameter  
15. Remarks SW 20X20 cm 1/8" screened; rest 1/4" screened.  
  
  
  
  
16. Photo no. Black & White Roll 1/1 (N)  
17. Recorded by EJL 18. Date 4/28/88

Excavation Record - Level Summary

1. Site 32 MN 331 2. Excavation Unit 1  
3. Level 2 4. Depth 10-20 cmbs  
5. Excavated by EJL 6. Date 4/28/88  
7. Floorplan drawn? No 8. Screened? Yes ( $\frac{1}{8}$ " &  $\frac{1}{4}$ ")  
9. Wall trowelled or checked for features? Yes  
10. Floor trowelled or checked for features? Yes  
11. Features present or indicated None - cracks  
  
12. Nature of soil <sup>(Dry)</sup> 10YR 4/3 Brown/Dark Brown - Sandy silt, wetter than level 1  
13. Summary of artifacts recovered 3 <sup>tertiary</sup> KRF flakes in  $\frac{1}{8}$ " screen; 6 KRF tertiary flakes, 1 gray chert tertiary flake, & 1 bone frag. (5 pieces) in  $\frac{1}{4}$ " screen; 2 flecks charcoal  $\frac{1}{4}$ " screen  
14. Nonartifactual debris ca.  $\frac{3}{4}$  pint gravels  $\frac{1}{8}$ - $1\frac{1}{2}$  in. in diameter.  
15. Remarks Quickly grades at 15-17 cmbs into lighter colored silty sand - float sample (15x15x10 cm) from SE corner - darker soil from L1 & top  $\frac{1}{2}$  L2 in <sup>old</sup> cracks on floor  
  
16. Photo no. B/W 1/2 C 1/2 (N)  
17. Recorded by EJL 18. Date 4/28/88

Excavation Record - Level Summary

1. Site 32 MN 331 2. Excavation Unit 1  
3. Level 3 4. Depth 20-30 cms  
5. Excavated by EJL 6. Date 4/28/88  
7. Floorplan drawn? No 8. Screened? 1/8" & 1/4"  
9. Wall trowelled or checked for features? Yes  
10. Floor trowelled or checked for features? Yes  
11. Features present or indicated None  
12. Nature of soil <sup>(Dry)</sup> 10YR 5/3 Brown - silty sand -  
calcium carbonate <sup>becomes</sup> common at floor  
13. Summary of artifacts recovered Problematical KRF tertiary flake;  
FCR - 3 pieces, possibly all of the same piece  
14. Nonartifactual debris ca 1/2 pint gravel < 1/8" - 1 1/2"  
gravel  
15. Remarks  
16. Photo no. B/W 1/3 (N)  
17. Recorded by EJL 18. Date 4/28/88

Excavation Record - Level Summary

1. Site 32 MN 331 2. Excavation Unit 1  
3. Level 4 4. Depth 30-40 cm.  
5. Excavated by EJL 6. Date 4/28/88  
7. Floorplan drawn? No 8. Screened? Yes 1/8" & 1/4"  
9. Wall trowelled or checked for features? Yes  
10. Floor trowelled or checked for features? Yes  
11. Features present or indicated None - 1 rodent run  
12. Nature of soil <sup>(Dry)</sup> 10 YR 5/3 Brown - Sandy silt - calcium carbonate common, covering most gravels  
13. Summary of artifacts recovered ? bone frag.  
14. Nonartifactual debris c 1/3 pint gravels 1/8 - 1 in. in diameter, most covered w/ calcium carbonate  
15. Remarks  
16. Photo no. B/w 1/4 (N)  
17. Recorded by EJL 18. Date 4/28/88



LEVEL 1

None

None

LEVEL 2

LEVEL 3

None

LEVEL 4

LEVEL 5

LEVEL 6

# EXCAVATION PROFILE RECORD

SITE: 32MN331

OPERATION: XU1

SUB-OPERATION:

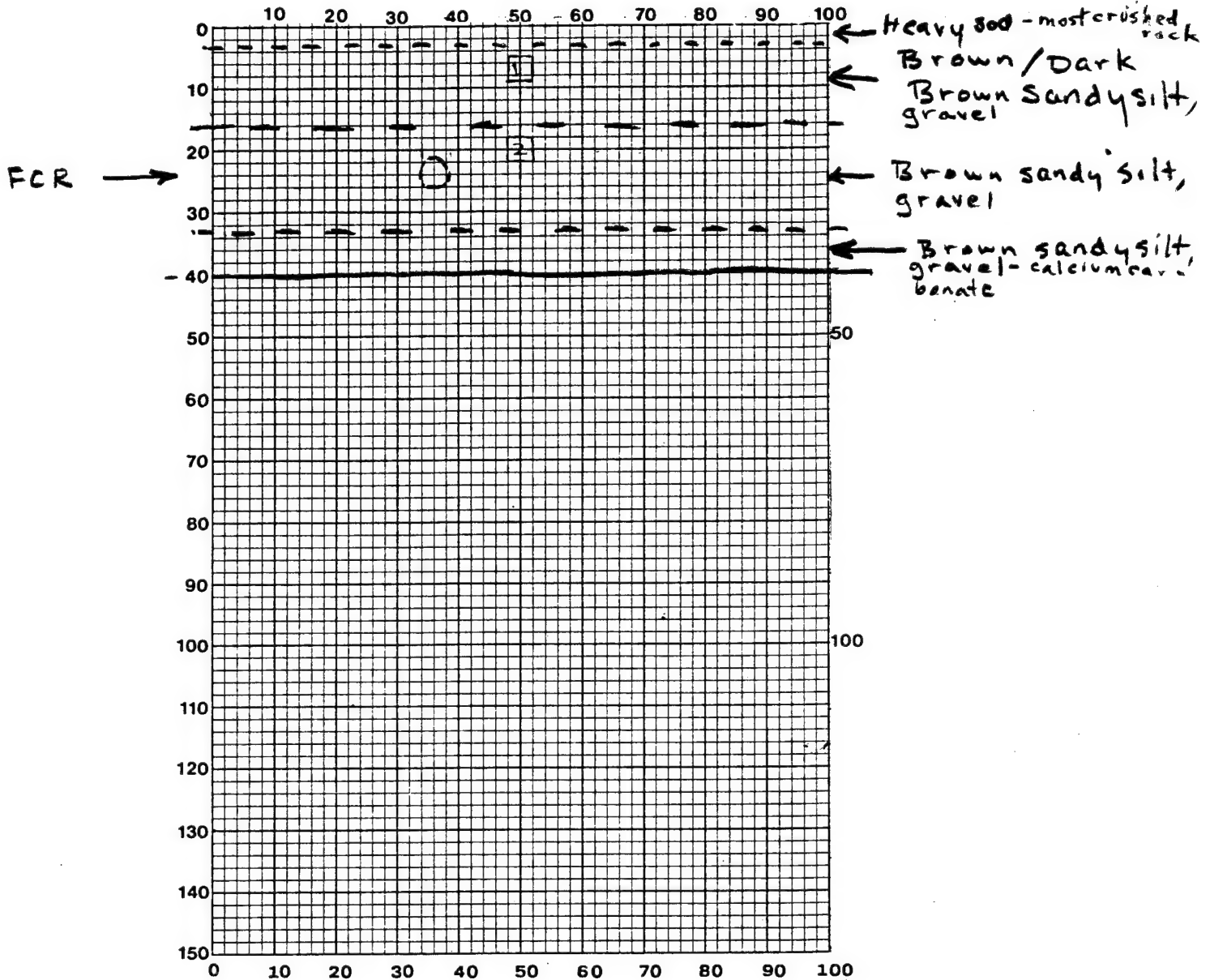
PHOTOGRAPHS:

Roll #B/W&C

Neg. #'s

<sup>B/W</sup>  
<sup>C</sup>  
1/5, 1/3

East WALL



SCALE 1:10 (centimeters)

DESCRIPTION: 1 #2 = pollen samples

RECORDER: E J L

PAGE: 7 of 8

FIELD RECORD SHEET

SAMPLE # 1, 2, 3

SITE 32 MN 331

Photos:  
B/W 1/4, 78 & C 1/4

EXCAVATION UNIT 1

PHOTO NUMBER B/W 1/5 & C 1/3

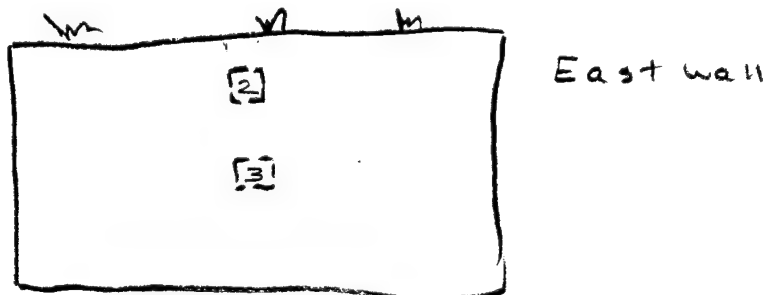
CO-ORDINATES \_\_\_\_\_ PROFILE NUMBER \_\_\_\_\_

LAYER/LEVEL/FEATURE (sample 1)  
SE corner Level 2 / 10-20 cms)  
(Samples 2,3) "pollen"

DESCRIPTION OF SAMPLE (Size etc) 15 x 15 x 10 cm (deep);  
pollen samples - East wall 48-52 cm from SE  
corner - 5-9 cms & 18-22 cms

PURPOSE OF SAMPLE (Flotation, C14, soil etc.,) Flotation;  
Pollen

DIAGRAMATIC REPRESENTATION OF LOCATION OF SAMPLE OR FURTHER COMMENT \_\_\_\_\_



DATE 4/28/88 SIGNED EJL

Excavation Record - Unit Summary

1. Site 32 MN 331 2. Excavation Unit 2
3. Number of levels excavated, describe procedures 6 (5 1/2)  
\_\_\_\_\_  
\_\_\_\_\_
4. Unit datum in SW corner 5. Depth of floor from unit datum 60 cm bs
6. Depth of unit datum from site datum \_\_\_\_\_
7. Features within unit Fea. 1: Hist. hearth - Sandstone  
metate? - concentration of mtl's in Level 2 - rodent
8. Features indicated on floor Concentration of mtl's in Level 2 -  
rodent runs
9. Features indicated on profiles Fea. 1: Hist. hearth; rodent runs  
\_\_\_\_\_  
\_\_\_\_\_
10. Profiles recorded: N    S ✓ E ✓ W    other \_\_\_\_\_
11. Floorplans drawn Levels 1, 2, 3, 4, 5 - \$Top of Level 3
12. Summary remarks and other data concerning unit 2-3 components  
Hist. - 5-30 cm bs(?) - ca. 30-60 cm bs(?)  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
13. Excavator(s) EJL
14. Dates excavated 4/29/88
15. Recorded by EJL 16. Date 4/29/88

Excavation Record - Level Summary

1. Site 32 MN 331 2. Excavation Unit 2
3. Level 1 4. Depth 0-10 cm bs
5. Excavated by EJL 6. Date 4/29/88
7. Floorplan drawn? Yes 8. Screened? Yes (1/8" & 1/4")
9. Wall trowelled or checked for features? Yes
10. Floor trowelled or checked for features? Yes
11. Features present or indicated Yes <sup>(Fea. 1)</sup> - hist. shallow pit in SE corner,   
 East wall & South wall; 3 rodent runs in floor.
12. Nature of soil 7.5YR 4/2 Brown / Dark Brown - Sandy <sup>(Dry)</sup>   
 silt, dry
13. Summary of artifacts recovered charcoal from hist. Fea. (sample 3),   
 cigarette filter, briquette frag.,   
 7" twisted wire nails, 2" pop tabs, 2 bottle glass frags., 2 22cal. shells,   
 rolled up paper (filter?), lead, wire, white plastic, bone frag., brnd. bone?,   
 3 KRF tertiary flakes, 1 pink chert shatter, 2 possible FCR.
14. Nonartifactual debris c 1/2 pint gravel 1/8" - 1/2" dia
15. Remarks Charcoal flecks in west wall 39.5 cm N of   
 SW corner & 7.5-9 cm bs.
16. Photo no. B/w 1/9 (floor, N); B/w 1/10, 11 & C1/5 (East wall)
17. Recorded by EJL 18. Date 4/29/88

Excavation Record - Level Summary

1. Site 39MN331 2. Excavation Unit 2
3. Level 2 4. Depth 10-20 cmbs
5. Excavated by EJL 6. Date 4/29/88
7. Floorplan drawn? Yes 8. Screened? Yes (1/8" & 1/4")
9. Wall trowelled or checked for features? Yes
10. Floor trowelled or checked for features? Yes
11. Features present or indicated 2 concentrations of materials on floor
12. Nature of soil LOYR 4/3 Brown/Dark Brown (dry) - sandy silt, dry.
13. Summary of artifacts recovered Charcoal flecks, debitage, FCR patterned tool frag., tooth frags., bone frags.,
14. Nonartifactual debris c 3/4 pint gravels 1/8 - 2 in. in diameter gravels
15. Remarks \_\_\_\_\_
16. Photo no. B/W 1/12, 13 C 1/6 (E)
17. Recorded by EJL 18. Date 4/29/88

Excavation Record - Level Summary

1. Site 32 MN 331 2. Excavation Unit 2
3. Level 3 4. Depth 20-30 cm bs
5. Excavated by EJL 6. Date 4/29-30/88
7. Floorplan drawn? Yes 8. Screened? Yes (1/8" - 1/4")
9. Wall trowelled or checked for features? Yes
10. Floor trowelled or checked for features? Yes
11. Features present or indicated None - rodent run & FCR  
in NW corner
12. Nature of soil 10.5YR 5/3 Brown - Sandy silt  
- calcium carbonate common in soil, beginning ca. 20-21 cm bs
13. Summary of artifacts recovered 2 flakes, FCR? - flakes & shatter,  
FCR, bone frags., 1 charcoal fleck in floor
14. Nonartifactual debris gravels 1/8" - 1 1/2" diameter - c 3/4  
pint - most <sup>have</sup> calcium carbonate on
15. Remarks \_\_\_\_\_
16. Photo no. <sup>(Top)</sup> B/W 1/14 & C 1/7, 8 (E); <sup>(Floor & west wall)</sup> B/W 1/15, 16 & C 1/11 (NW)
17. Recorded by EJL 18. Date 4/29-30/88



Excavation Record - Level Summary

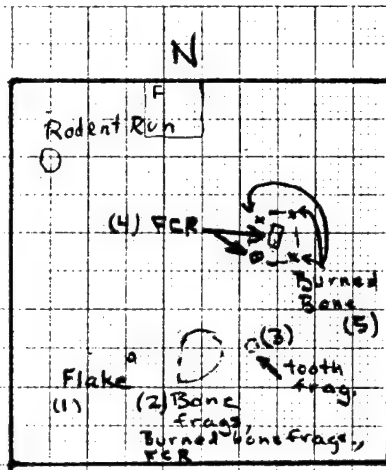
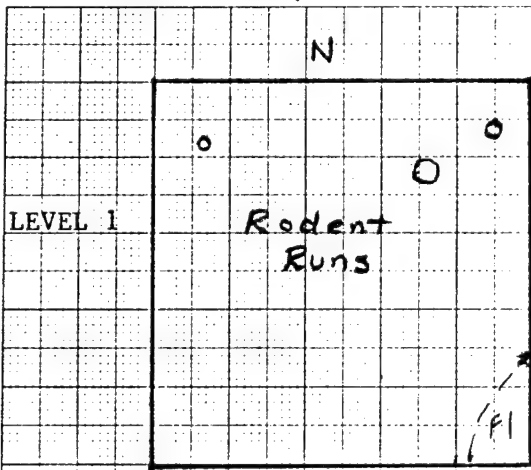
1. Site 32 MN 331 2. Excavation Unit 2
3. Level 4 4. Depth 30-40 cm bs
5. Excavated by EJL 6. Date 4/30/88
7. Floorplan drawn? Yes 8. Screened? Yes ( $\frac{1}{8}$ " &  $\frac{1}{4}$ ")
9. Wall trowelled or checked for features? Yes
10. Floor trowelled or checked for features? Yes
11. Features present or indicated None - 2 rodent runs
12. Nature of soil 10YR 5/3 Brown (dry) - sandy silt - calcium carbonate common (same as floor of Level 3)
13. Summary of artifacts recovered Flakes, Shatter, FCR?, ground stone
14. Nonartifactual debris c 1 pint gravels  $\frac{1}{8}$ " -  $3\frac{1}{2}$ " (six or so largest items platy, sandstone like caprock-like)
15. Remarks \_\_\_\_\_
16. Photo no. B/w 1/17, 18 & C1/12 (W)
17. Recorded by EJL 18. Date 4/30/88

Excavation Record - Level Summary

1. Site 32MN331 2. Excavation Unit 2  
3. Level 5 4. Depth 40-50cms  
5. Excavated by EJL 6. Date 4/30/88  
7. Floorplan drawn? Yes 8. Screened? Yes (1/8" - 1/4")  
9. Wall trowelled or checked for features? Yes  
10. Floor trowelled or checked for features? Yes  
11. Features present or indicated Sandstone - metate? - bone frags.  
on.  
12. Nature of soil LOYR 5/3 Brown Sandy silt,  
calcium carbonate common as in level 4  
13. Summary of artifacts recovered Sandstone - metate frags,  
bone frags, debitage.  
  
14. Nonartifactual debris gravels 1/8" - 2 1/2 in., many have  
calcium carbonate on, c 1/2 pint  
15. Remarks \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
16. Photo no. B/W 1/19, 20 & C1/13 (w); B/W 1/21, 22 & C1/14  
17. Recorded by EJL 18. Date 4/30/88

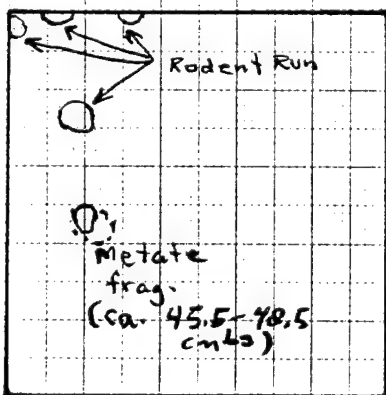
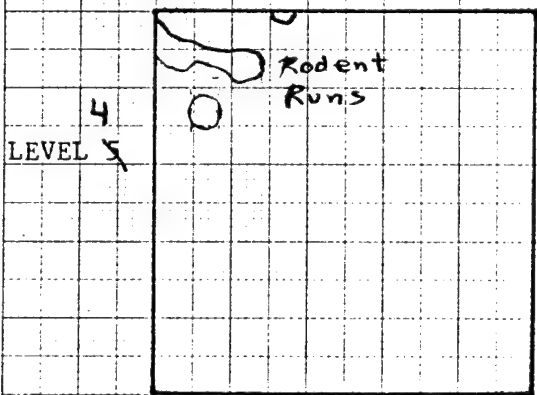
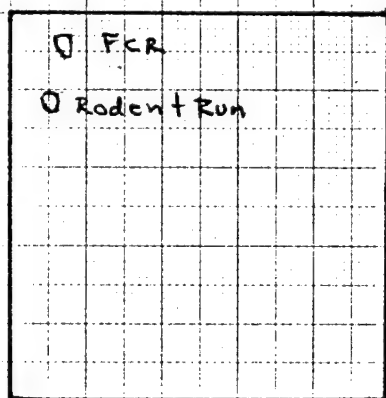
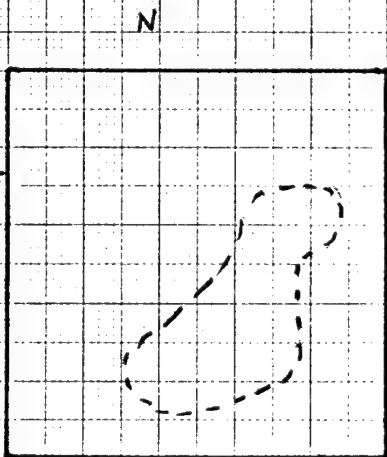
Excavation Record - Level Summary

1. Site 32MN331 2. Excavation Unit 2
3. Level 6 (5 1/2) 4. Depth 50-60 cms
5. Excavated by EJL 6. Date 4/30/88
7. Floorplan drawn? No 8. Screened? Yes (1/8" & 1/4")
9. Wall trowelled or checked for features? Yes
10. Floor trowelled or checked for features? Yes
11. Features present or indicated None
12. Nature of soil 10YR 5/3 Brown - Sandy Silt,  
- Same as Level 5
13. Summary of artifacts recovered debitage, bone frags.
14. Nonartifactual debris 1/10 pint gravels 1/8" - 1/2" in dia.
15. Remarks
16. Photo no. <sup>(All E)</sup> B/w 1/23 & C1/15; <sup>(floor)</sup> B/w 1/24, 25 & B/w 2/1-4 & C1/16, 17 <sup>(East wall)</sup>
17. Recorded by EJL 18. Date 4/30/88



461510

TOP  
ca 20-22 cmbs  
LEVEL 3  
Flotation  
Sample  
#2  
(Sample #5)



# EXCAVATION PROFILE RECORD

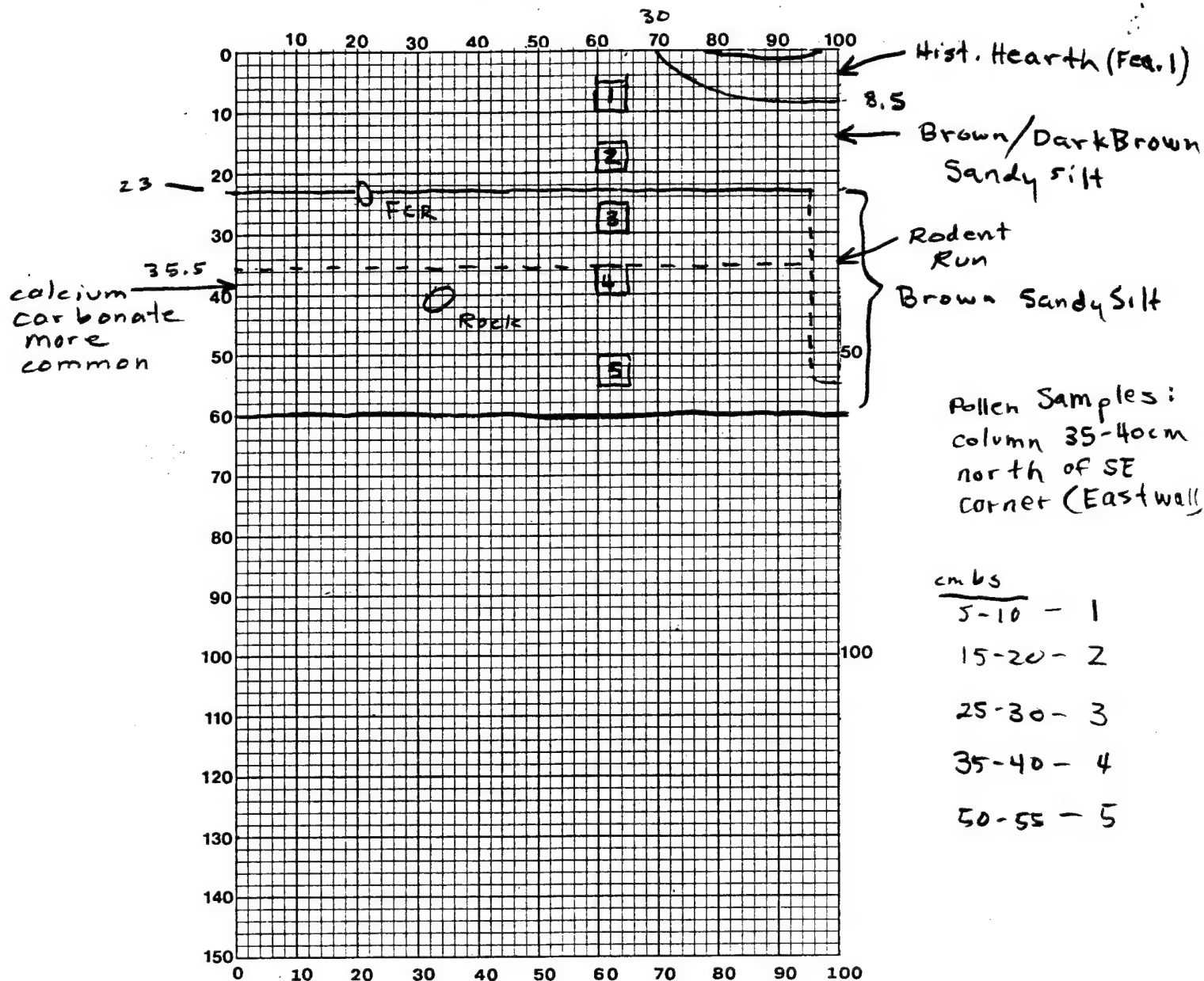
SITE: **32MN331**

OPERATION: **XU2**

SUB-OPERATION:

PHOTOGRAPHS: Roll # \_\_\_\_\_ Neg. #'s **B/w 2/5-7 & C1/18**

**E** WALL



SCALE 1:10 (centimeters)

DESCRIPTION: **Fea. 1 in East wall, etc**

RECORDER: **EJL**

PAGE: **9 of 15**

# EXCAVATION PROFILE RECORD

SITE: 32 MN 331  
XU 2

OPERATION:

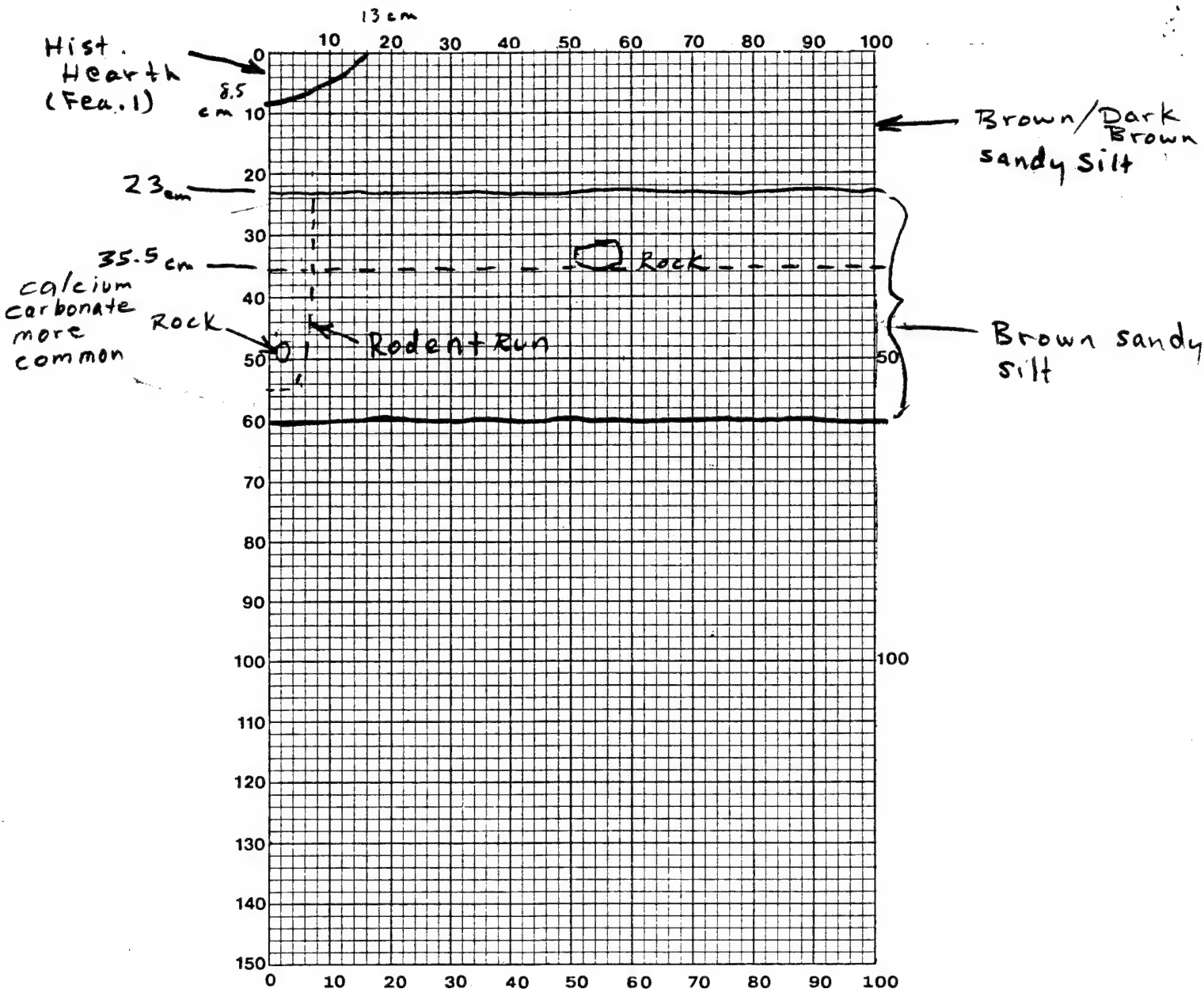
SUB-OPERATION:

PHOTOGRAPHS:

Roll #

Neg. #'s

S WALL



SCALE 1:10 (centimeters)

DESCRIPTION: Fea. 1 in South wall — \* angle view in some pictures of east wall

RECORDER: EJL

PAGE: 10 of 15

Feature Record

1. Feature No. 1 2. Site 32MN331
3. Definition Hist. Hearth - nails, briquette, etc.
4. Excavation Unit(s) 2
5. Location
- a. horizontal 87cm East of SW corner
- b. from surface 0 - 8.5 cms
- c. from datum \_\_\_\_\_
6. Dimensions
- a. maximum length 30cm + direction N-S
- b. maximum width 13cm + direction E-W
- c. vertical thickness or depth 0 - 8.5 cms
7. Associations
- a. features \_\_\_\_\_
- b. specimens Charcoal, nails, briquette, other
8. Preservation Partial - Good
9. Stratigraphic Remarks \_\_\_\_\_
10. Remarks \_\_\_\_\_
11. Exposed by EJL Date 4/29/88
12. Recorded by EJL Date 4/29-30/88
13. Photo No. B/w 1/10, 11 E C 1/5 14. Sketch: ☒ Yes ☐ No  
B/w 2/5-7 & C 1/18 & others



FIELD RECORD SHEET

SAMPLE # 4

SITE 32 MN 331

EXCAVATION UNIT 2

PHOTO NUMBER \_\_\_\_\_

CO-ORDINATES \_\_\_\_\_ PROFILE NUMBER \_\_\_\_\_

LAYER/LEVEL/FEATURE Level (0-10cms), Fea. 1

DESCRIPTION OF SAMPLE (Size etc) Charcoal sample

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

PURPOSE OF SAMPLE (Flotation, C14, soil etc.,) C14 ? (probably not)

\_\_\_\_\_  
\_\_\_\_\_

DIAGRAMATIC REPRESENTATION OF LOCATION OF SAMPLE OR FURTHER COMMENT \_\_\_\_\_

DATE 4/29/88

SIGNED EJL

FIELD RECORD SHEET

SAMPLE # 5

SITE 32 MN 331

EXCAVATION UNIT 2

PHOTO NUMBER \_\_\_\_\_

CO-ORDINATES \_\_\_\_\_ PROFILE NUMBER \_\_\_\_\_

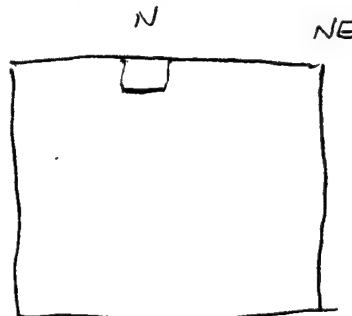
LAYER/LEVEL/FEATURE Level 2 (10-20 cm bs)

DESCRIPTION OF SAMPLE (Size etc) 15x15 x 10 cm bs -

50-65 cm west of NE corner & 15 cm south of

PURPOSE OF SAMPLE (Flotation, C14, soil etc.,) Flotation

DIAGRAMATIC REPRESENTATION OF LOCATION OF SAMPLE OR FURTHER COMMENT \_\_\_\_\_



DATE 4/29/88

SIGNED EJL

ARCHAEOLOGY LAB FOR THE CENTER FOR WESTERN STUDIES

FIELD RECORD SHEET

SAMPLE # 6

SITE 32MN331

EXCAVATION UNIT 2

PHOTO NUMBER B/w 1/14 C1/7-8 (E)

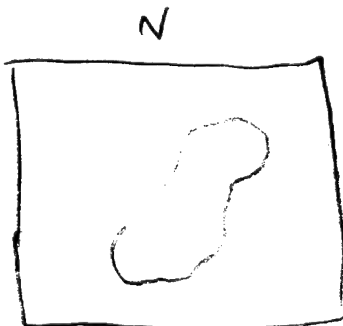
CO-ORDINATES \_\_\_\_\_ PROFILE NUMBER \_\_\_\_\_

LAYER/LEVEL/FEATURE in Level 3 (20-22 cm bs)

DESCRIPTION OF SAMPLE (Size etc) see photo

PURPOSE OF SAMPLE (Flotation, C14, soil etc.,) Flotation

DIAGRAMATIC REPRESENTATION OF LOCATION OF SAMPLE OR FURTHER COMMENT \_\_\_\_\_



DATE 4/29/88

SIGNED EJL

FIELD RECORD SHEET

SAMPLE # 7-11

SITE 32 MN 331

EXCAVATION UNIT 2

PHOTO NUMBER B/W 2/5-7 ECL/18

CO-ORDINATES \_\_\_\_\_ PROFILE NUMBER \_\_\_\_\_

LAYER/LEVEL/FEATURE Levels 1-6

DESCRIPTION OF SAMPLE (Size etc) 4x4x5 cm

PURPOSE OF SAMPLE (Flotation, C14, soil etc.,) Pollen

DIAGRAMATIC REPRESENTATION OF LOCATION OF SAMPLE OR FURTHER COMMENT \_\_\_\_\_

East wall 35-40cm SE corner

Sample 7	□ 5-10 cm	bs
" 8	□ 15-20 cm	bs
" 9	□ 25-30 cm	bs
" 10	□ 35-40 cm	bs
" 11	□ 50-55 cm	bs

DATE 4/30/88

SIGNED EJL

Excavation Record - Unit Summary

1. Site 32 MN 228 2. Excavation Unit 3
3. Number of levels excavated, describe procedures 3
4. Unit datum in NW corner 5. Depth of floor from unit datum 30cm
6. Depth of unit datum from site datum \_\_\_\_\_
7. Features within unit None
8. Features indicated on floor None
9. Features indicated on profiles None
10. Profiles recorded: N \_\_\_\_\_ S \_\_\_\_\_ E \_\_\_\_\_ W ☒ other \_\_\_\_\_
11. Floorplans drawn Levels 2, 3 - Top of Level 1
12. Summary remarks and other data concerning unit cultural zone  
as a sub unit is problematical - frequency of mtls.  
& small items in Level 2 might favor 10-20cmbs.
13. Excavator(s) EJL
14. Dates excavated 5/1/88
15. Recorded by EJL / RPW 16. Date 5/1-2/88

Excavation Record - Level Summary

1. Site 32MN 228 2. Excavation Unit 3
3. Level 1 4. Depth 0-10 (East 1/4 Low-c2m)
5. Excavated by EJL 6. Date 5/1/88
7. Floorplan drawn? No 8. Screened? Yes (1/8" & 1/4")
9. Wall trowelled or checked for features? Yes
10. Floor trowelled or checked for features? Yes
11. Features present or indicated None - Rock. c 3.5 in in length  
in North wall.
12. Nature of soil 10YR 3/3 (Dry) Dark Brown - sandy silt,  
dry c 3/4 below surface
13. Summary of artifacts recovered debitage & FCR
14. Nonartifactual debris gravels 1/8" - 2.5" in diameter c 1/3 pint.
15. Remarks \_\_\_\_\_
16. Photo no. B/W 2/8 (N)
17. Recorded by EJL 18. Date 5/1/88

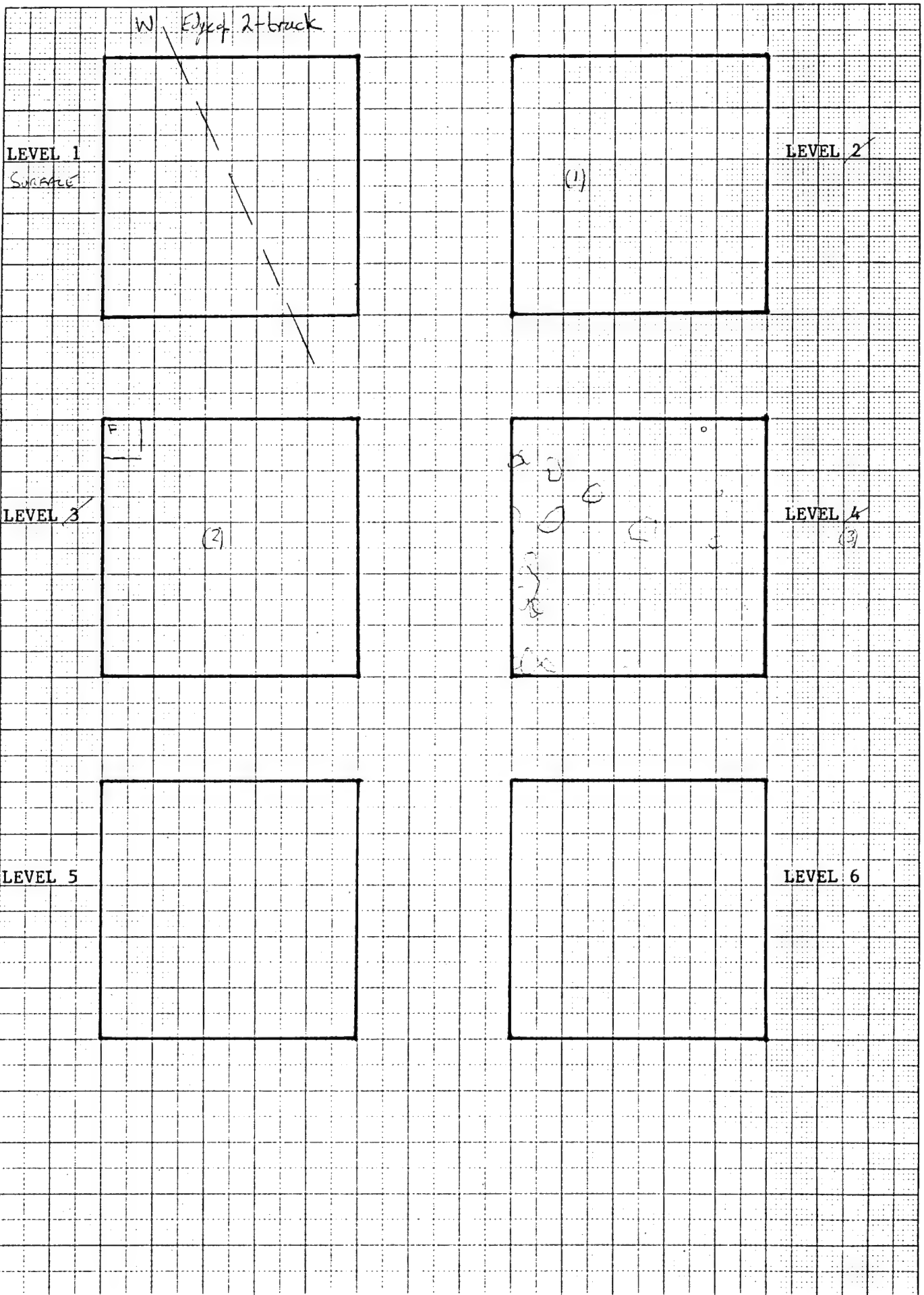
Excavation Record - Level Summary

1. Site 32 MN 228 2. Excavation Unit 3  
3. Level 2 4. Depth 16-20 cms  
5. Excavated by EJL 6. Date 5/1/88  
7. Floorplan drawn? Yes (flake) 8. Screened? Yes ( $\frac{1}{8}$ " &  $\frac{1}{4}$ ")  
9. Wall trowelled or checked for features? Yes  
10. Floor trowelled or checked for features? Yes  
11. Features present or indicated None - flake in floor  
12. Nature of soil 10YR 3/3<sup>(Dry)</sup> Dark Brown sandy silt, gravelly  
13. Summary of artifacts recovered debitage, bone frags?  
14. Nonartifactual debris c 1 pint gravels  $\frac{1}{8}$ " - 2" in diameter  
15. Remarks  
16. Photo no. B/w 2/9 (N)  
17. Recorded by EJL 18. Date 5/1/88



Excavation Record - Level Summary

1. Site 32MN228 2. Excavation Unit 3  
3. Level 3 4. Depth 20-30cms  
5. Excavated by EJL 6. Date 5/1/88  
7. Floorplan drawn? INC 8. Screened? Yes (1/8" & 1/4")  
9. Wall trowelled or checked for features? Yes  
10. Floor trowelled or checked for features? Yes  
11. Features present or indicated None  
  
12. Nature of soil <sup>\*</sup> 10YR 4/4 (Dry) Dark Yellowish Brown - silty  
sand, calcium carbonate on or partly or ca. 1/5 of gravels  
13. Summary of artifacts recovered Debitage; possible FCR  
  
14. Nonartifactual debris ca. 1 1/2 pnts gravels & rocks  
not counting those in floor plan / floor picture - many  
small gravels (1/8" - 1/4" dia.) - rocks up to ca. 6 in. long (floor plan)  
15. Remarks \* Soil color in Level 2 and top of Level 3  
quickly grades to this lighter color around  
ca. 26 cms (more rocks & gravels - basically  
a layer of big rocks at 25-30+ cms.  
16. Photo no. F/W 2/10, 11 & C/19, 20 (W)  
17. Recorded by EJL 18. Date 5/1/88



# EXCAVATION PROFILE RECORD

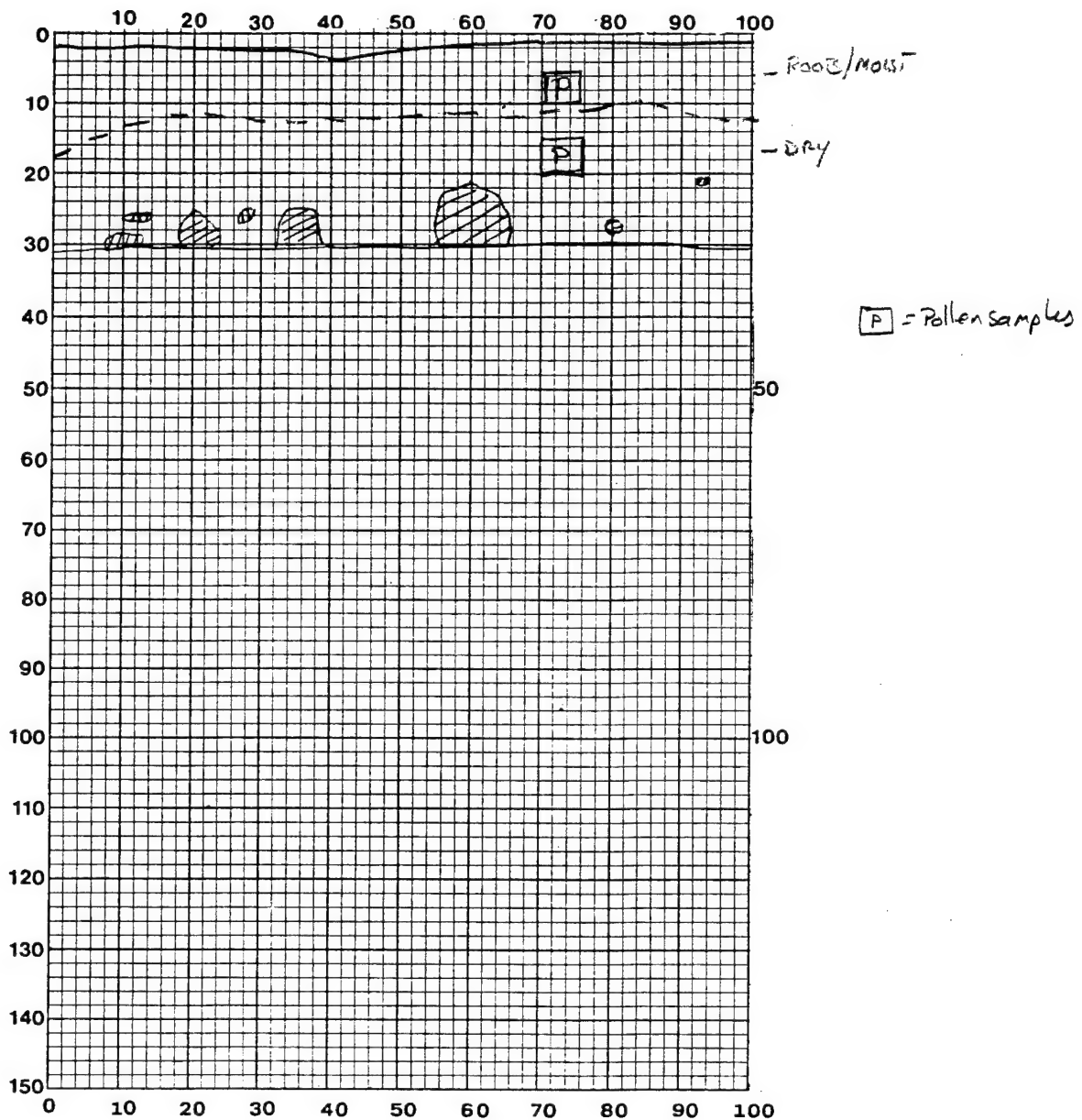
SITE: 32MN 228

OPERATION: X03

SUB-OPERATION:

PHOTOGRAPHS: Roll # \_\_\_\_\_ Neg. #'s B/W 2/12/13 & C1/21

W WALL



SCALE 1:10 (centimeters)

DESCRIPTION: See level summaries

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5-2-88

RECORDER: RPW

PAGE: 6 of 8

FIELD RECORD SHEET

SAMPLE # 12

SITE 32MN228

EXCAVATION UNIT 3

PHOTO NUMBER \_\_\_\_\_

CO-ORDINATES NW<sup>1</sup>/<sub>4</sub> corner PROFILE NUMBER \_\_\_\_\_

LAYER/LEVEL/FEATURE Level 2 - 10-20 cmbs

DESCRIPTION OF SAMPLE (Size etc) 15x15x10 cm

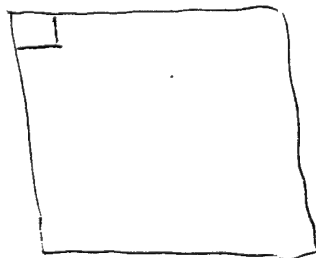
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

PURPOSE OF SAMPLE (Flotation, C14, soil etc.,) Flotation

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

DIAGRAMATIC REPRESENTATION OF LOCATION OF SAMPLE OR FURTHER COMMENT \_\_\_\_\_

N



DATE 5/1/88

SIGNED EJL

FIELD RECORD SHEET

SAMPLE # 13, 14

SITE 32MN228

EXCAVATION UNIT 3

PHOTO NUMBER \_\_\_\_\_

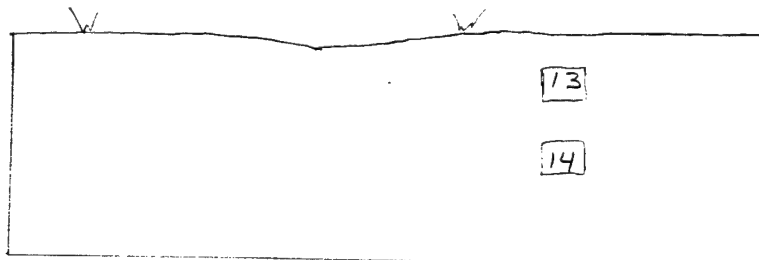
CO-ORDINATES \_\_\_\_\_ PROFILE NUMBER \_\_\_\_\_

LAYER/LEVEL/FEATURE Levels 1, 2

DESCRIPTION OF SAMPLE (Size etc) "4x4x5 cm"; 4-9 cm bs  
& 12-16 cm bs at 25-30 cm South of NW  
corner

PURPOSE OF SAMPLE (Flotation, C14, soil etc.,) Pollen

DIAGRAMATIC REPRESENTATION OF LOCATION OF SAMPLE OR FURTHER COMMENT \_\_\_\_\_



DATE RPL

SIGNED 5/2/88

Excavation Record - Unit Summary

1. Site 32 MN 228 2. Excavation Unit 4
3. Number of levels excavated, describe procedures 3  
\_\_\_\_\_  
\_\_\_\_\_
4. Unit datum in NW corner 5. Depth of floor from unit datum \_\_\_\_\_
6. Depth of unit datum from site datum 3 cm above SW corner
7. Features within unit None  
\_\_\_\_\_
8. Features indicated on floor None  
\_\_\_\_\_
9. Features indicated on profiles None  
\_\_\_\_\_
10. Profiles recorded: N    S    E    W    ✓ other \_\_\_\_\_
11. Floorplans drawn Level 2  
\_\_\_\_\_
12. Summary remarks and other data concerning unit \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
13. Excavator(s) EJL
14. Dates excavated 5/2-3/88
15. Recorded by EJL 16. Date 5/3/88

Excavation Record - Level Summary

1. Site 32 MN 228 2. Excavation Unit 4
3. Level 1 4. Depth 0-10 cm. <sup>low surface on</sup> (East & South sides)
5. Excavated by EJL 6. Date 5/2-3/88
7. Floorplan drawn? No 8. Screened? Yes (1/8" & 1/4")
9. Wall trowelled or checked for features? Yes
10. Floor trowelled or checked for features? Yes
11. Features present or indicated None
12. Nature of soil 10YR 3/2 <sup>(damp-wet)</sup> Very Dark Grayish Brown -  
Sandy silt
13. Summary of artifacts recovered 2 KRF flakes, 1 gray chert flake
14. Nonartifactual debris c 1 pint gravels 1/8" to 2 1/2" in diameter
15. Remarks \_\_\_\_\_
16. Photo no. B/w 3/1
17. Recorded by EJL 18. Date 5/3/88

Excavation Record - Level Summary

1. Site 32MN228 2. Excavation Unit 4
3. Level 2 4. Depth 10-20 cmbs
5. Excavated by EJL 6. Date 5/3/88
7. Floorplan drawn? Yes 8. Screened? Yes (1/8" & 1/4")
9. Wall trowelled or checked for features? Yes
10. Floor trowelled or checked for features? Yes
11. Features present or indicated None
12. Nature of soil 10YR 3/3 Dark Brown (Dry) - sandy silt
13. Summary of artifacts recovered Debitage, possible bone frags.
14. Nonartifactual debris c 2 pints gravels 1/8" - 2.5" in diameter  
plus rock shown in floorplan - heavy calcium carbonate on some
15. Remarks c 20%
16. Photo no. B/W 3/6 (N)
17. Recorded by EJL 18. Date 5/3/88



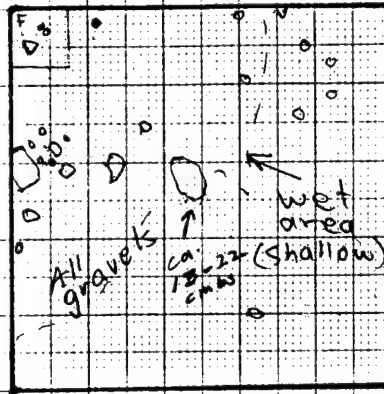
Excavation Record - Level Summary

1. Site 32 MN 228 2. Excavation Unit 4
3. Level 3 4. Depth 20-30cms
5. Excavated by EJL 6. Date 5/3/88
7. Floorplan drawn? NO 8. Screened? Yes (1/8" & 1/4")
9. Wall trowelled or checked for features? Yes
10. Floor trowelled or checked for features? Yes
11. Features present or indicated None
12. Nature of soil 10YR 3/3 Dark Brown (Dry) in Level 2 & 3  
basically sits on gravel/rock bed
13. Summary of artifacts recovered Debitage
14. Nonartifactual debris ca. 1 1/2 gal. gravels/rocks 1/8" - 6 1/2" in dia-  
meter
15. Remarks
16. Photo no. B/W 3/7-9 & C 1/25 (W)
17. Recorded by EJL 18. Date 5/3/88

LEVEL 1

None

LEVEL 2



LEVEL 3

LEVEL 4

LEVEL 5

LEVEL 6

# EXCAVATION PROFILE RECORD

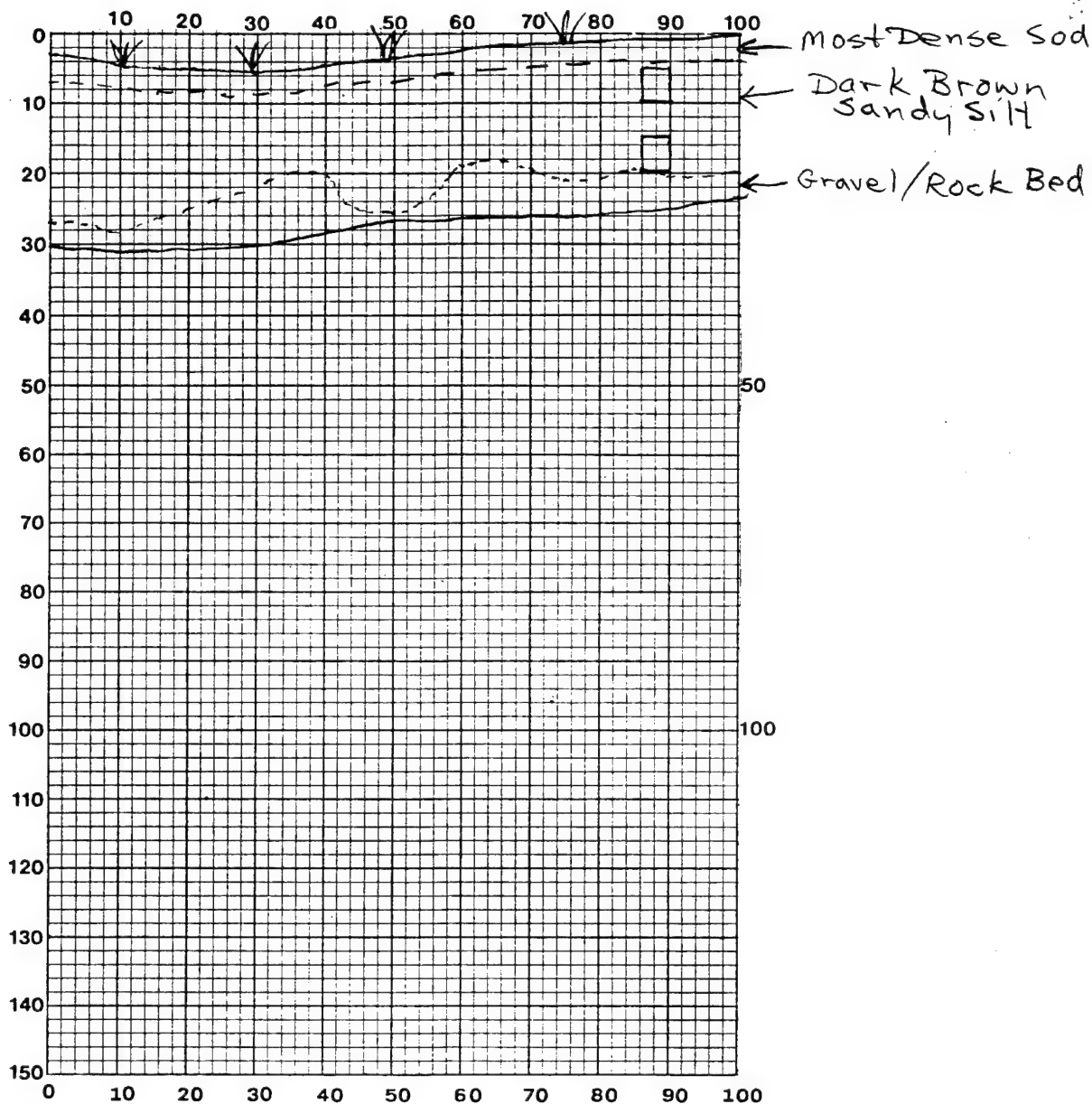
SITE: 32MN228

OPERATION: XU4

SUB-OPERATION:

PHOTOGRAPHS: Roll # \_\_\_\_\_ Neg. #'s B/w 3/10-12 & C1/26 (W)

W WALL



SCALE 1:10 (centimeters)

DESCRIPTION: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

5/3/88  
RECORDER: EJL

FIELD RECORD SHEET

SAMPLE # 15

SITE 32MN228

EXCAVATION UNIT 4

PHOTO NUMBER \_\_\_\_\_

CO-ORDINATES \_\_\_\_\_ PROFILE NUMBER \_\_\_\_\_

LAYER/LEVEL/FEATURE Level 2 - 10-20cms - NW corner

DESCRIPTION OF SAMPLE (Size etc) 15x15x10 cm

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

PURPOSE OF SAMPLE (Flotation, C14, soil etc.) Flotation

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

DIAGRAMATIC REPRESENTATION OF LOCATION OF SAMPLE OR FURTHER COMMENT \_\_\_\_\_

DATE 5/3/88

SIGNED EJL

FIELD RECORD SHEET

SAMPLE # 16, 17

SITE 32MN228

EXCAVATION UNIT 4

PHOTO NUMBER B/W 3/13, 14 & C1/27

CO-ORDINATES \_\_\_\_\_ PROFILE NUMBER \_\_\_\_\_

LAYER/LEVEL/FEATURE 5-10 cmbs & 15-20 cmbs at 10-14 cm South of NW corner

DESCRIPTION OF SAMPLE (Size etc) 4 x 4 x 5

PURPOSE OF SAMPLE (Flotation, C14, soil etc.,) Pollen

DIAGRAMATIC REPRESENTATION OF LOCATION OF SAMPLE OR FURTHER COMMENT \_\_\_\_\_



5-10 cmbs (Sample #16)  
15-20 cmbs (Sample #17)

DATE 5/3/88

SIGNED ESL

Excavation Record - Unit Summary

1. Site 32 MN 331 2. Excavation Unit 5
3. Number of levels excavated, describe procedures 4  
\_\_\_\_\_  
\_\_\_\_\_
4. Unit datum in SW corner 5. Depth of floor from unit datum 40 cm bs
6. Depth of unit datum from site datum \_\_\_\_\_
7. Features within unit None - Rodent Runs  
\_\_\_\_\_
8. Features indicated on floor None - Rodent Runs  
\_\_\_\_\_
9. Features indicated on profiles None - Rodent Runs  
\_\_\_\_\_
10. Profiles recorded: N ☒ S ☐ E ☐ W ☐ other \_\_\_\_\_
11. Floorplans drawn Levels 1, 2, 3, 4
12. Summary remarks and other data concerning unit MtIs. apparently  
0-20 cm bs primarily, perhaps 10-20 cm bs.  
with lower mtIs due to "drift" & rodent activity.  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
13. Excavator(s) EJL / LAR
14. Dates excavated 5/3-4/88
15. Recorded by EJL 16. Date 5/4/88

Excavation Record - Level Summary

1. Site 32 MN 331 2. Excavation Unit 5'  
3. Level 1 4. Depth 0-10 cmbs  
5. Excavated by EJL/LAR 6. Date 5/3/88  
7. Floorplan drawn? Yes 8. Screened? Yes (1/8" & 1/4")  
9. Wall trowelled or checked for features? Yes  
10. Floor trowelled or checked for features? Yes  
11. Features present or indicated None  
12. Nature of soil 10 (Wet) YR 3/2 Very Dark Grayish Brown,  
clayey silt  
13. Summary of artifacts recovered Debitage  
14. Nonartifactual debris small handful small gravels  
c 1/8 - 1/2 in. in diameter, c 1/20 pint.  
15. Remarks  
16. Photo no. B/W 5/1, 2 (N)  
17. Recorded by EJL 18. Date 5/3/88

Excavation Record - Level Summary

1. Site 32 MN 331 2. Excavation Unit 5  
3. Level 2 4. Depth 10-20 cm bs  
5. Excavated by EJL/LAR 6. Date 5/4/88  
7. Floorplan drawn? Yes 8. Screened? Yes (1/8" & 1/4")  
9. Wall trowelled or checked for features? Yes  
10. Floor trowelled or checked for features? Yes  
11. Features present or indicated None - Rodent Run in NW  
corner  
12. Nature of soil wet to ca. 17 cm bs. - (floor) 10YR 4/3 Brown/  
Dark Brown - clayey silt  
13. Summary of artifacts recovered Debitage, bone frags.  
  
  
14. Nonartifactual debris small handful 1/8" in dia. gravels,  
c 1/20 pint.  
15. Remarks  
  
  
  
  
16. Photo no. B/W 5/3 (N)  
17. Recorded by EJL 18. Date 5/4/88



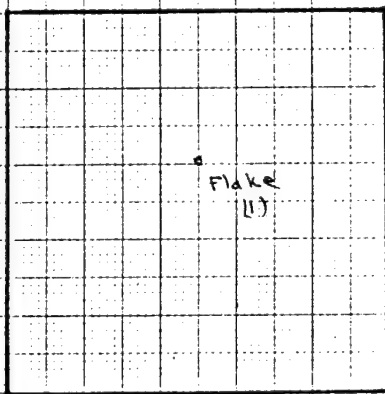
Excavation Record - Level Summary

1. Site 32 mN 331 2. Excavation Unit 5  
3. Level 3 4. Depth 20-30 cmbs  
5. Excavated by EJL & LAR 6. Date 5/4/88  
7. Floorplan drawn? Yes 8. Screened? Yes (1/8" & 1/4")  
9. Wall trowelled or checked for features? Yes  
10. Floor trowelled or checked for features? Yes  
11. Features present or indicated None - 2? Rodent Runs?  
  
12. Nature of soil 10 YR 4/3 Brown / Dark Brown (Dry)  
sandy silt  
13. Summary of artifacts recovered Debitage  
  
14. Nonartifactual debris c 1/4 pint gravels 1/8" - 1 1/4" in diameter  
gravels  
15. Remarks see Remarks, Level 4.  
  
16. Photo no. B/W 5/8 (W)  
17. Recorded by EJL 18. Date 5/4/88

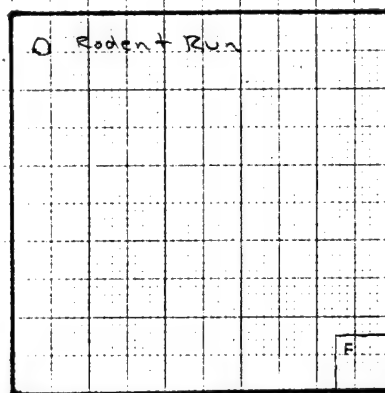
Excavation Record - Level Summary

1. Site 32 MN 331 2. Excavation Unit 5  
3. Level 4 4. Depth 30-40 cm bs  
5. Excavated by EJL/LAR 6. Date 5/4/88  
7. Floorplan drawn? Yes 8. Screened? Yes (1/8" & 1/4")  
9. Wall trowelled or checked for features? Yes  
10. Floor trowelled or checked for features? Yes  
11. Features present or indicated None - rodent Runs  
12. Nature of soil 10YR 5/3<sup>(Dry)</sup> Brown - sandy silt  
13. Summary of artifacts recovered 1 flake in 1/8" screen, probably redeposited by rodent activity - run in area  
14. Nonartifactual debris c 1 1/4 pints gravels 1/8" - 2" in diameter, many wholly or partly calcium carbonate covered  
15. Remarks Rodent Run in SW corner, evidenced by slightly darker, more loose soil, and a group of gravels, probably accounts for the one item found in the 1/8" screen in this level, and one or more items from the 1/8" screen in Level 3. - Gravels in Rodent Run at 37-39 cm bs.  
16. Photo no. B/W 5/11 & c 1/30 (N)  
17. Recorded by EJL 18. Date 5/4/88

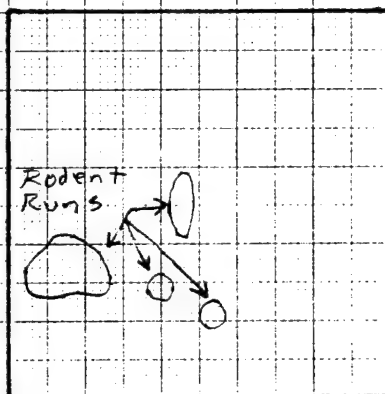
LEVEL 1



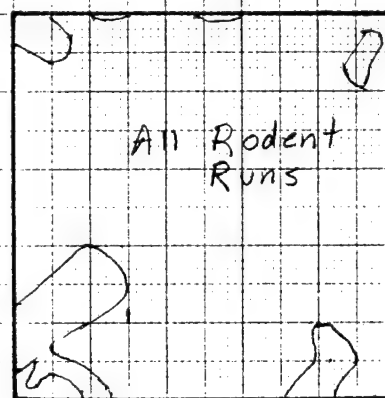
LEVEL 2



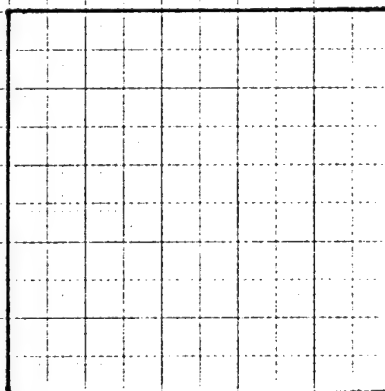
LEVEL 3



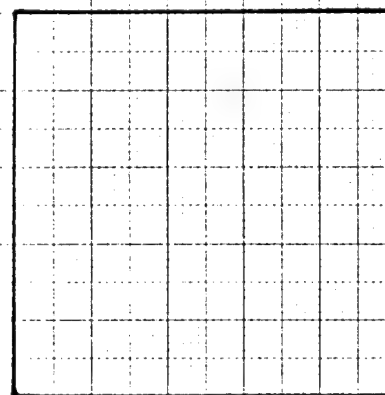
LEVEL 4



LEVEL 5



LEVEL 6



# EXCAVATION PROFILE RECORD

SITE: 32MN331

OPERATION: XUS

SUB-OPERATION:

PHOTOGRAPHS:

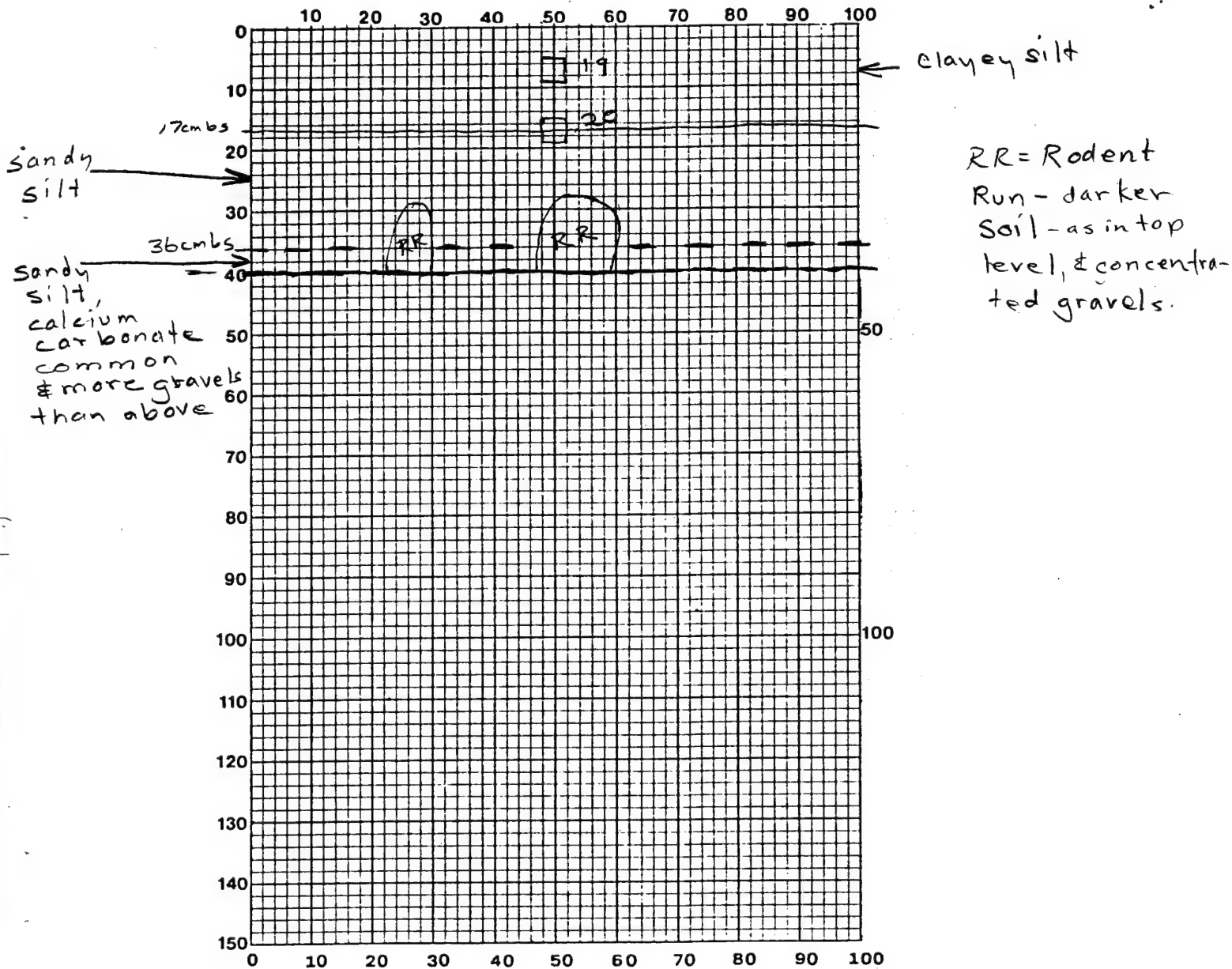
Roll #

Neg. #'s

B/W 5/12, 13 C 1/31

N

WALL



SCALE 1:10 (centimeters)

DESCRIPTION:

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

5/4/88

RECORDER:

EJL

PAGE: 7 of 9

FIELD RECORD SHEET

SAMPLE # 18

SITE 32 MN331

EXCAVATION UNIT 5

PHOTO NUMBER \_\_\_\_\_

CO-ORDINATES \_\_\_\_\_ PROFILE NUMBER \_\_\_\_\_

LAYER/LEVEL/FEATURE Level 2 - 10-20 cmbs -

DESCRIPTION OF SAMPLE (Size etc) 15x15x10 cm - SE corner

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

PURPOSE OF SAMPLE (Flotation, C14, soil etc.,) Flotation

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

DIAGRAMATIC REPRESENTATION OF LOCATION OF SAMPLE OR FURTHER COMMENT \_\_\_\_\_

DATE 5/4/88

SIGNED EJL

FIELD RECORD SHEET

SAMPLE # 19, 20

SITE 32 MN 331

EXCAVATION UNIT 5

PHOTO NUMBER B/w 5/16, 17 E 1/33 (N)

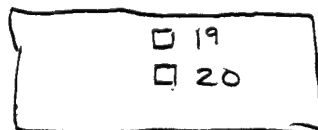
CO-ORDINATES \_\_\_\_\_ PROFILE NUMBER \_\_\_\_\_

LAYER/LEVEL/FEATURE Levels 1 & 2 - 5-10 & 15-20 cms

DESCRIPTION OF SAMPLE (Size etc) 4x4x5 cm - at column  
48-52 cm East of NW corner

PURPOSE OF SAMPLE (Flotation, C14, soil etc.) Pollen

DIAGRAMATIC REPRESENTATION OF LOCATION OF SAMPLE OR FURTHER COMMENT \_\_\_\_\_



DATE 5/4/88

SIGNED EJL

Excavation Record - Unit Summary

1. Site 32MN331 2. Excavation Unit 6
3. Number of levels excavated, describe procedures 3
4. Unit datum in SW corner 5. Depth of floor from unit datum 30cm
6. Depth of unit datum from site datum \_\_\_\_\_
7. Features within unit NONE
8. Features indicated on floor NONE
9. Features indicated on profiles NONE
10. Profiles recorded: N \_\_\_\_\_ S \_\_\_\_\_ E \_\_\_\_\_ W ☒ other \_\_\_\_\_
11. Floorplans drawn Levels 1, 2 - Level 3 (NO FEATURES, STOWS Etc.)
12. Summary remarks and other data concerning unit \_\_\_\_\_  
ARTIFACTS from 0-20cm, clear change at 20cm to hard  
sandy silt/silty sand - STERILE  
Possible root disturbance seen in N-Wall and a flake  
recovered on boundary of L2/L3 in one such loose soil area.
13. Excavator(s) PW/LR
14. Dates excavated 5-4-88
15. Recorded by PW 16. Date 5-4-88

Excavation Record - Level Summary

1. Site 32MN331
2. Excavation Unit 6
3. Level 1
4. Depth 0-10 cm
5. Excavated by PW
6. Date 5-4-88
7. Floorplan drawn? ☒
8. Screened? 1/8" (20x20) + 1/4"
9. Wall trowelled or checked for features? ☒
10. Floor trowelled or checked for features? ☒
11. Features present or indicated No
12. Nature of soil SILT w/ sand present + some small gravel - 10YR 3/2  
Very Dark Grayish Brown (Wet) - <sup>EJL</sup>
13. Summary of artifacts recovered 1/8" - 10 pieces - REF. (MUSEUM) + 1 piece (1" - (WFF))  
1/4" (WFF) + 1/4" (WFF) + 1/4" (WFF)
14. Nonartifactual debris Sod - Pelling (rare)
15. Remarks
16. Photo no. Roll 2 / Roll 5 C32 / B1415 FACING W -
17. Recorded by PW
18. Date 5-4-88

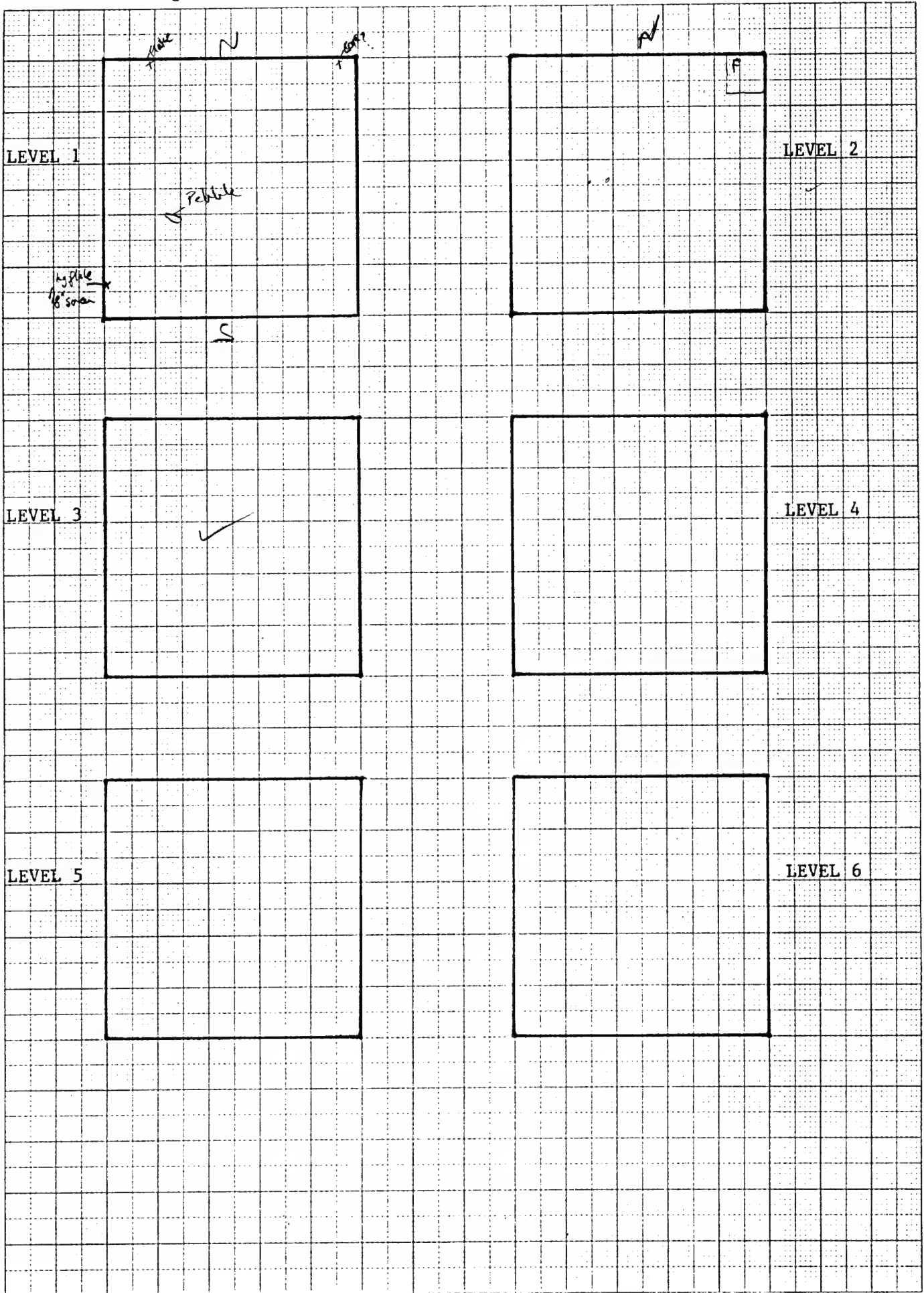


Excavation Record - Level Summary

1. Site 32MN331 2. Excavation Unit 6  
3. Level 2 4. Depth 10-20  
5. Excavated by PW 6. Date 5-4-88  
7. Floorplan drawn? ✓ 8. Screened? 1/8, 1/4  
9. Wall trowelled or checked for features? ✓  
10. Floor trowelled or checked for features? ✓  
11. Features present or indicated NO  
  
12. Nature of soil Site - very rare gravels - almost none - 10YR 4/3  
Brown/Dark Brown (Dry)EJL -  
13. Summary of artifacts recovered \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
14. Nonartifactual debris \_\_\_\_\_  
\_\_\_\_\_  
15. Remarks \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
16. Photo no. Roll 2 Roll 5  
(34 / 6/10 - F. 100, 10)  
17. Recorded by PW 18. Date 5-6-88

Excavation Record - Level Summary

1. Site 32 MN 331 2. Excavation Unit 6
3. Level 3 4. Depth 20-30 cm bs
5. Excavated by RPW/LAR 6. Date 5/4/88
7. Floorplan drawn?                      8. Screened? Yes (1/8" - 1/4")
9. Wall trowelled or checked for features? Yes
10. Floor trowelled or checked for features? Yes
11. Features present or indicated No
12. Nature of soil 10YR 4/3 Brown/Dark Brown - sandy silt
13. Summary of artifacts recovered 1 flake (intrusive?)
14. Nonartifactual debris Few, but rare grave's
15. Remarks Extremely hard, compact Sand almost silt in content
16. Photo no. Roll 2 C35 / Roll 5 620 (UNIT) Roll 5 621, 22 - White Printers
17. Recorded by RPW/EJL 18. Date 5/4/88



# EXCAVATION PROFILE RECORD

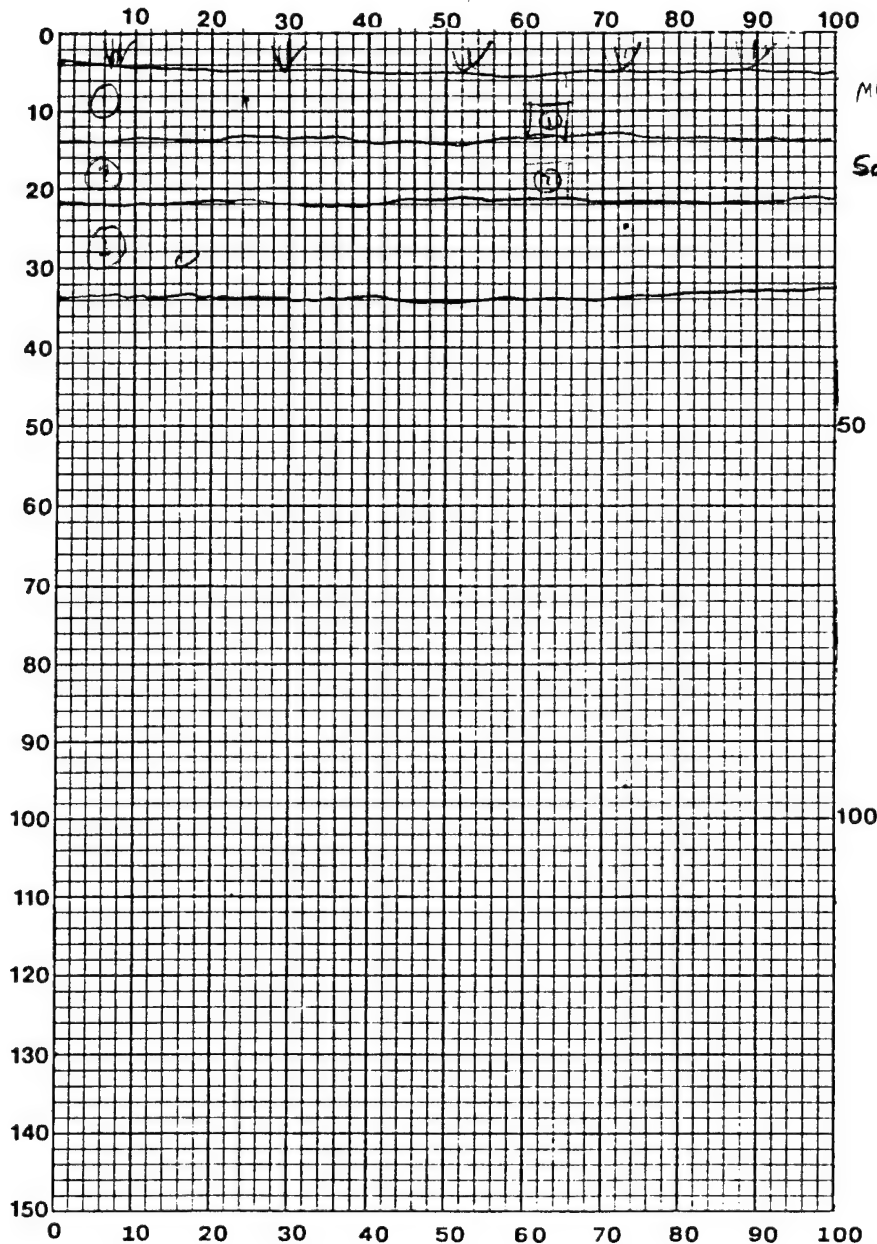
SITE: 32MN331

OPERATION: 706

SUB-OPERATION:

PHOTOGRAPHS: Roll # \_\_\_\_\_ Neg. #'s \_\_\_\_\_

W - WALL



MOIST / ROOTLETS COMMON

SOME ROOTLETS

#22  
 [ ] = Filler  
 [ ] = #23

SCALE 1:10 (centimeters)

DESCRIPTION: 1-3 = see level forms

RECORDER: P.W.

PAGE: 6 of 8

FIELD RECORD SHEET

SAMPLE # 21

SITE 32 MN 331

EXCAVATION UNIT 6

PHOTO NUMBER B5/23

CO-ORDINATES \_\_\_\_\_ PROFILE NUMBER \_\_\_\_\_

LAYER/LEVEL/FEATURE Level 2-10-20cm bs - NE corner

DESCRIPTION OF SAMPLE (Size etc) 15 x 15 x 10 cm

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

PURPOSE OF SAMPLE (Flotation, C14, soil etc.,) Flotation

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

DIAGRAMATIC REPRESENTATION OF LOCATION OF SAMPLE OR FURTHER COMMENT \_\_\_\_\_

DATE 5/4/88

SIGNED RPW/EJL

FIELD RECORD SHEET

SAMPLE # 22, 23

SITE 32 MN 331

EXCAVATION UNIT 6

PHOTO NUMBER \_\_\_\_\_

CO-ORDINATES \_\_\_\_\_ PROFILE NUMBER \_\_\_\_\_

LAYER/LEVEL/FEATURE Level 1 & 2 - 5-10 & 15-20 cms

DESCRIPTION OF SAMPLE (Size etc) 4 X 4 X 5 cm - at column  
60-65 North of SW corner.

PURPOSE OF SAMPLE (Flotation, C14, soil etc.,) Pollen

DIAGRAMATIC REPRESENTATION OF LOCATION OF SAMPLE OR FURTHER COMMENT \_\_\_\_\_

DATE 5/4/86

SIGNED RPLW

ARCHAEOLOGY LAB FOR THE CENTER FOR WESTERN STUDIES

FIELD RECORD SHEET

SAMPLE # 24, 25

SITE 32MN331

EXCAVATION UNIT cutbank near XU2 PHOTO NUMBER \_\_\_\_\_

CO-ORDINATES \_\_\_\_\_ PROFILE NUMBER \_\_\_\_\_

LAYER/LEVEL/FEATURE Cut bank near XU2

DESCRIPTION OF SAMPLE (Size etc) 15 X 15 X 10cm (long) - from  
column 15cm wide - No. 24 = 10-25 cm bs;  
No. 25 = 20-35 cm bs.

PURPOSE OF SAMPLE (Flotation, C14, soil etc.,) Flotation

DIAGRAMATIC REPRESENTATION OF LOCATION OF SAMPLE OR FURTHER COMMENT \_\_\_\_\_

DATE 5/3/88

SIGNED RPW

APPENDIX C

PHOTOGRAPHIC LOG



PHOTOGRAPHIC RECORD  
Archeology Laboratory, Center for Western Studies

Project Testing at White Earth Bay

Color Slides        Black & White Prints X

Roll No. 1

Date	Photog's Initials	Exposure No.	Subject	Looking Toward	Neg. Cat. No.
4-28-88	EJL	1	XU1 - Level 1 32MN331	N	
"	"	2	XU1 - Level 2 32MN331	N	
"	"	3	XU1 - Level 3 32MN331	N	
"	"	4	XU1 - Level 4 32MN331	N	
"	"	5-6	XU1 - East wall profile 32MN331	E	
"	"	7-8	XU1 - East wall Pollen samples 32MN331	E	
4-29-88	"	9	XU2 - Level 1 32MN331	N	
"	"	10-11	XU2 - Level 1/East wall 32MN331	E	
"	"	12-13	XU2 - Level 2 32MN331	E	
"	"	14	XU2 - Level 3 32MN331	E	
"	"	15-16	XU2 - Level 3 Floor and west wall 32MN331	W	

PHOTOGRAPHIC RECORD  
Archeology Laboratory, Center for Western Studies

Project Testing at White Earth Bay

Color Slides        Black & White Prints X

Roll No. 1

Date	Photog's Initials	Exposure No.	Subject	Looking Toward	Neg. Cat. No.
4-30-88	EJL	17-18	XU2 - Level 4 32MN331	W	
"	"	19-20	XU2 - Level 5 32MN331	W	
"	"	21-22	XU2 - Level 5 32MN331	E	
"	"	23-24	XU2 - Level 6 32MN331	E	
"	"	25	XU2 - Level 6 East wall 32MN331	E	

PHOTOGRAPHIC RECORD  
Archeology Laboratory, Center for Western Studies

Project Testing at White Earth Bay

Color Slides \_\_\_\_\_ Black & White Prints X

Roll No. 2

Date	Photog's Initials	Exposure No.	Subject	Looking Toward	Neg. Cat. No.
4-30-88	EJL	1-4	XU2 - Level 6 East wall profile 32MN331	E	
"	"	5-7	XU2 - Pollen samples from east wall 32MN331	E	
"	"	8	XU3 - Level 1 32MN228	N	
"	"	9	XU3 - Level 2 32MN228	N	
"	"	10-11	XU3 - Level 3 32MN228	W	
"	"	12-13	XU3 - West wall profile 32MN228	W	

PHOTOGRAPHIC RECORD  
Archeology Laboratory, Center for Western Studies

Project Testing at White Earth Bay

Color Slides        Black & White Prints X

Roll No. 3

Date	Photog's Initials	Exposure No.	Subject	Looking Toward	Neg. Cat. No.
5-3-88	EJL	1	XU4 - Level 1 Floor, 0-10cm bs 32MN228	N	
"	"	2	Overview of augering at 32MN331	SE	
"	"	3	Overview of augering at 32MN331	SE	
"	"	4	Overview of augering at 32MN331 - ? Hall's Post at dark area in lake	S	
"	"	5	"	S	
"	"	6	XU4 - Level 2 Floor, 10-20cm bs 32MN228	N	
"	"	7-9	XU4 - Level 3 Floor, 20-ca. 30cm bs 32MN228	W	
"	"	10-12	XU4 - West wall profile 32MN228	W	
"	"	13-14	XU4 - West wall after pollen samples 32MN228	W	
"	RPW	15-16	Cutbank/Bait shop 32MN331	WNW	

PHOTOGRAPHIC RECORD  
Archeology Laboratory, Center for Western Studies

Project Testing at White Earth Bay

Color Slides        Black & White Prints X

Roll No. 3

Date	Photog's Initials	Exposure No.	Subject	Looking Toward	Neg. Cat. No.
5-3-88	RPW	17-18	32MN331 - From beach showing trees & dunes	SW	
"	"	19-20	150N grid line and crew at XU5 32MN331	W	
"	"	21-22	View from XU5 (32MN331) to "island" just exposed in lake (Hall's Post?)	S	
"	"	23-24	Ed laying out XU5 32MN331	S	

PHOTOGRAPHIC RECORD  
Archeology Laboratory, Center for Western Studies

Project Testing at White Earth Bay

Color Slides \_\_\_\_\_ Black & White Prints X

Roll No. 4

Date	Photog's Initials	Exposure No.	Subject	Looking Toward	Neg. Cat. No.
5-3-88	RPW	1-6	Panorama of 32MN331 SE --- NE		
"	"	7-8	Main site datum 2" iron pipe & brass cap (left)	E	
"	"	9-10	Flags at stones of ? circle - stake at XU3	ENE	
"	"	11-12	Stone piles in area of stone circles mapped by Robson	N	
"	"	13-14	View from 75W/250N Corps lots 32MN228	W	
"	"	15-16	View from SE corner Lot 48 to NW corner Corps lot	NNE	
"	"	17-18	View from SE corner Corps Lot 48 to upper terrace (32MN335 to left of photo)	N	
"	"	19-20	View from 32MN228 to 32MN331	E	
"	"	21	Screening at XU5 32MN331	S	
"	"	22-25	Samples from cutbank near XU2 (32MN331)	SSE	

PHOTOGRAPHIC RECORD  
Archeology Laboratory, Center for Western Studies

Project Testing at White Earth Bay

Color Slides \_\_\_\_\_ Black & White Prints X

Roll No. 5

Date	Photog's Initials	Exposure No.	Subject	Looking Toward	Neg. Cat. No.
5-3-88	EJL	1-2	XU5 - Level 1 32MN331	N	
"	"	3	XU5 - Level 2 32MN331	N	
"	"	4-5	Cairn - F1 - Close-up 32MN228	N	
"	"	6-7	Cairn - F1 - General view, 32MN228	N	
"	"	8	XU5 - Level 3 32MN331	W	
"	"	9-10	XU6 - Level-Surface 1/8" screening sample 32MN331	W	
"	"	11	XU5 - Level 4 32MN331	N	
"	"	12-13	XU5 - North wall profile 32MN331	N	
"	"	14-15	XU6 - Level 1 32MN331	W	
"	"	16-17	XU5 - Pollen samples North wall profile 32MN331	N	
"	"	18-19	XU6 - Level 2 32MN331	W	

PHOTOGRAPHIC RECORD  
Archeology Laboratory, Center for Western Studies

Project Testing at White Earth Bay

Color Slides        Black & White Prints X

Roll No. 5

Date	Photog's Initials	Exposure No.	Subject	Looking Toward	Neg. Cat. No.
5-4-88	RPW	20	XU6 - Level 3 32MN331	W	
"	"	21-22	XU6 - West wall profile 32MN331	W	
"	"	23	XU6 - Pollen samples West wall profile 32MN331	W	



PHOTOGRAPHIC RECORD  
Archeology Laboratory, Center for Western Studies

Project Testing at White Earth Bay

Color Slides X Black & White Prints        Roll No. 1

Date	Photog's Initials	Exposure No.	Subject	Looking Toward	Neg. Cat. No.
4-28-88	EJL	2	XU1 - Level 2 32MN331	N	
"	"	3	XU1 - East wall profile 32MN331	E	
"	"	4	XU1 - Pollen samples East wall 32MN331	E	
4-29-88	"	5	XU2 - Level 1 32MN331	E	
"	"	6	XU2 - Level 2 32MN331	E	
4-29-88/ 4-30-88	"	7-8	XU2 - Level 3 32MN331	E	
"	RPW	9-10	Ed at XU2 32MN331	NW	
"	EJL	11	XU2 - Level 3 Floor and west wall 32MN331	NW	
"	"	12	XU2 - Level 4 32MN331	W	
"	"	13	XU2 - Level 5 32MN331	W	
"	"	14	XU2 - Level 5 32MN331	E	

PHOTOGRAPHIC RECORD  
Archeology Laboratory, Center for Western Studies

Project Testing at White Earth Bay

Color Slides 1 Black & White Prints      Roll No. 1

Date	Photog's Initials	Exposure No.	Subject	Looking Toward	Neg. Cat. No.
4-30-88	EJL	15	XU2 - Level 6 Floor 32MN331	E	
"	"	16-17	XU2 - Level 6 East wall 32MN331	E	
"	"	18	XU2 - Pollen samples East wall 32MN331	E	
5-1-88	"	19-20	XU3 - Level 3 32MN228	W	
"	"	21	XU3 - West wall profile 32MN228	W	
"	"	22	View from XU3 to 32MN331	E	
5-3-88	"	23-24	Overview of augering at 32MN331 - ? Hall's Post at dark area in lake	S	
"	"	25	XU4 - Level 3 Floor, 20-ca. 30cm bs 32MN228	W	
"	"	26	XU4 - West wall profile 32MN228	W	
"	"	27	XU4 - West wall after pollen samples 32MN228	W	
"	RPW	28-29	Cutbank/Bait shop 32MN331	WNW	

PHOTOGRAPHIC RECORD  
Archeology Laboratory, Center for Western Studies

Project Testing at White Earth Bay

Color Slides   X   Black & White Prints        Roll No.   1  

Date	Photog's Initials	Exposure No.	Subject	Looking Toward	Neg. Cat. No.
5-3-88	RPW	30-31	32MN331 - From beach showing trees & dunes	SW	
"	"	32-33	150N grid line and crew at XU5 32MN331	W	
"	"	34-35	Crew at XU4 (32MN228)	W	
"	"	36-37	View from near XU5 to "island" just exposed in lake (Hall's Post?)	S	

PHOTOGRAPHIC RECORD  
Archeology Laboratory, Center for Western Studies

Project Testing at White Earth Bay

Color Slides X Black & White Prints        Roll No. 2

Date	Photog's Initials	Exposure No.	Subject	Looking Toward	Neg. Cat. No.
5-3-88	RPW	1-6	Panorama of 32MN331 SE --- NE		
"	"	7-8	Main site datum 2" iron pipe & brass cap (left)	E	
"	"	9-10	Flags at stones of stone circle - stake at XU3	ENE	
"	"	11-12	Stone piles in area of stone circles mapped by Robson	N	
"	"	13-14	View from 75W/250N Corps lots - west site 32MN228	W	
"	"	15-16	View from SE corner Corps Lot 48 32MN228	NNE	
"	"	17-18	View from SE corner Corps Lot 48 to upper terrace (near 32MN335)	N	
"	"	19-20	Overview from 32MN228 to 32MN331	E	
"	"	21-22	Screening at XU5 32MN331		
"	"	23-24	Cutbank samples 1/2 32MN331	SSE	
"	"	25-26	Cairn - Close-up 32MN228	N	

APPENDIX D

SUMMARY OF AUGER TESTS

## SITE 32MN228

GRID LOCATION	DEPTH	COMMENTS	ARTIFACTS POSITIVE/NEGATIVE
150W, 250N	0-50cm		N
175W, 225N	0-45cm		N
150W, 225N	0-15cm	Mainly gravels at 10-15cm	N
125W, 225N	0-25cm	Gravels at 20-25cm	N
150W, 200N	0-20cm	Numerous gravels at 10-20cm	N
125W, 200N	0-20cm	Pebbles, gravels at 10-20cm	N
375W, 175N	0-40cm	Dark brown silt loam; small pebbles in all levels	N
350W, 175N	0-30cm	Sandy silt; large rock at 30cm	N
325W, 175N	0-40cm	Sandy silt; large rocks at base	N
375W, 200N	0-50cm	Sandy silt; lighter, finer and drier at 40cm+	N
350W, 200N	0-40cm	Lighter, drier sandy silt at 40cm	N
325W, 200N SHOVEL TEST	0-40cm	Sandy silt; gravels at base	N
375W, 225N	0-40cm	Small gravels throughout	N
350W, 225N	0-40cm	Silt/sandy silt; lighter, finer, drier after 35cm	N
325W, 225N	0-50cm	Undifferentiated sandy silt	N
200W, 250N	0-50cm	Dark brown silt loam grading to to sandy silt at 0-40cm; lighter brown from 40 to 50cm+	N
200W, 275N	0-40cm	Gravels at base	N
200W, 300N	0-35cm	Gravels at 30-35cm	N
200W, 325N	0-30cm	Gravels at 25-30cm	N
225W, 225N	0-30cm	Gravels at 20-30cm	N

## SITE 32MN228

GRID LOCATION	DEPTH	COMMENTS	ARTIFACTS POSITIVE/NEGATIVE
225W, 250N	0-40cm	Pebbles at 35-40cm	N
225W, 275N	0-40cm	Pebbles at 35-40cm	N
225W, 300N	0-30cm	Pebbles at 25-30cm	N
225W, 325N	0-40cm	Pebbles at 30-40cm	N
250W, 225N	0-40cm	Fine silt and gravels at 30-40cm	N
250W, 250N	0-40cm	Fine silt and gravels at 30-40cm	N
250W, 275N	0-40cm	Fine silt and gravels at 30-40cm	N
250W, 300N	0-30cm	Pebbles at 20-30cm	N
250W, 325N	0-30cm	Pebbles at 20-30cm	N
275W, 225N	0-45cm		N
275W, 250N	0-40cm		N
175W, 300N	0-40cm		N
150W, 275N	0-40cm		N
125W, 275N	0-30cm	Gravels at 25-30cm	N
100W, 275N	0-40cm	Gravels at base	N
75W, 275N	0-20cm	Gravels at 15-20cm	N
50W, 275N	0-15cm	Large pebbles/gravels at 10-15cm	N
25W, 275N	0-30cm	Gravels at 20-30cm	N
100W, 250N	0-15cm	Gravels from surface	N
75W, 250N	0-20cm	Gravels at base	N
50W, 250N	0-50cm		P
50W, 225N	0-30cm	Gravels at 20-30cm	N

## SITE 32MN228

GRID LOCATION	DEPTH	COMMENTS	ARTIFACTS POSITIVE/NEGATIVE
125W, 300N	0-25cm	Large pebbles/gravel at base	N
100W, 300N	0-45cm	Gravels at base	P
75W, 300N	0-30cm	Gravels at base	P
50W, 300N	0-40cm	Fine gravels only	N
25W, 300N	0-40cm	At edge of low-lying area with buckbrush - fine silt loam and pebbles	N
100W, 325N	0-45cm	Pebbles, gravels at 40-45cm	N
75W, 325N	0-20cm	Pebbles, gravels at 15-20cm	N
50W, 325N	0-35cm	Many pebbles, gravels at 30-35cm	N
25W, 325N	0-40cm	Edge of buckbrush depression; very little gravel (like 25W, 300N)	N
75W, 350N	0-50cm	Silt; few pebbles	N
50W, 350N	0-45cm	Small pebbles and gravels from 30cm	N
25W, 350N	0-30cm	Pebbles and gravels at 25-30cm	N
50W, 375N	0-50cm	Fine pebbles and gravels at 40-50cm	P
25W, 375N	0-40cm	Silt; few gravels	N
0, 375N	0-15cm	Pebbles, gravels at 5-15cm (in old trail)	N
25W, 400N	0-55cm	Silt; minimal gravel	N
0, 400N	0-25cm	Gravels at base	N
25E, 400N	0-15cm	Pebbles, gravels at 5-15cm	N
0, 425N	0-30cm	Gravels at 20-30cm	N



SITE 32MN228

GRID LOCATION	DEPTH	COMMENTS	ARTIFACTS POSITIVE/NEGATIVE
25E, 425N	0-45cm	In swale with buckbrush; no gravels - lighter soil at 40-45cm	N
25E, 225N	0-33cm	Pebbles at 30+cm	P
50E, 225N	0-15cm	Gravels at 15cm	N
75E, 225N	0-15cm	Large gravels	P
25E, 200N	0-30cm	0-20cm = sandy silt; 20-30cm = large pebbles/sand	N
50E, 200N [SHOVEL TEST] XU3	0-25cm	0-10cm = sandy silt, small pebbles; 10-20cm = sandy silt-lighter, large pebbles; 20-25cm = sandy silt-many pebbles, gravels	P
75E, 200N	0-25cm	Gravels/pebbles; more at 20-25cm	P
75E, 175N	0-20cm	More pebbles, gravels at 20cm	P
50E, 250N	0-15cm	Solid pebbles at 15cm	P

## SITE 32MN331

GRID LOCATION	DEPTH	COMMENTS	ARTIFACTS POSITIVE/NEGATIVE
150E, 100N	0-40cm	Very few pebbles	N
150E, 125N		Road fill	
150E, 75N	0-20cm	Numerous pebbles and gravels at 10-20cm	N
175E, 75N	0-60cm	Fine silt; no gravels	N
175E, 100N	0-55cm	Fine silt	N
175E, 125N	0-40cm	Fine silt	N
200E, 125N	0-40cm	Fine silt; rare pebbles	N
200E, 100N	0-50cm	Small pebbles and fine silt	P
200E, 75N	0-45cm	Fine silt; small gravels	N
200E, 50N	0-40cm	Fine silt, small pebbles and gravels at 30-40cm	P
150E, 0	0-40cm	Pea-sized gravels at base	N
150E, 25S	0-10cm	Numerous gravels	N
150E, 50S	0-40cm	Rare gravels	N
150E, 75S	0-25cm	Large pebbles at 20+cm	N
175E, 0	0-40cm	Silt with some pebbles; gravels throughout	N
175E, 25S	0-30cm	Pea-sized gravels and pebbles at base	N
175E, 50S	0-20cm	Numerous gravels through- out (in old dirt track)	N
200E, 0	0-30cm	Hit rocks, pebbles at 30cm	N
200E, 25S	0-35cm	Numerous pea-sized gravels at 25-35cm	N
200E, 50S	0-10cm	Sand/gravel (beach)	N
250E, 25S	0-10cm	Sand/gravel (beach)	N

## SITE 32MN331

GRID LOCATION	DEPTH	COMMENTS	ARTIFACTS POSITIVE/NEGATIVE
250E, 0	0-25cm	Numerous gravels at 20-25cm; dark silt above	N
250E, 25N	0-50cm	Silt; lighter at 45-50cm	N
250E, 50N	0-45cm	Silt; pebbles last 10cm	N
250E, 75N	0-40cm	Small gravels at 20-40cm	N
250E, 100N	0-30cm	Large rock/pebbles at base	P
250E, 125N	0-45cm	Silt and small amount of gravel	N
225E, 25S	0-10cm	Sand and gravel (beach)	N
225E, 0	0-40cm	Silt, sand, gravels (among driftwood)	N
225E, 25N	0-50cm	Fine silt with gravels at 30-50cm (25N is private lot; actually at 23N)	N
225E, 50N	0-30cm	Pebbles/gravels at base	N
225E, 75N	0-50cm	Gravels throughout - white silt at 40-50cm	N
225E, 100N		In road	
225E, 125N	0-40cm	Pea-sized gravels throughout	N
275E, 0N	0-25cm	Dense sand, pebbles and gravels at 20-25cm	N
275E, 25N	0-45cm	Numerous pebbles at 40-45cm	N
275E, 50N	0-50cm	Small pebbles at 30-50cm	P
277E, 75N	0-45cm	Gravels throughout (moved from 275 to 277 because of gravel track)	N
275E, 100N	0-35cm	Pebbles at base	N
275E, 125N	0-40cm	Pebbles at base	N
275E, 150N	0-45cm	Lighter soil and pebbles at 40-45cm	N

## SITE 32MN331

GRID LOCATION	DEPTH	COMMENTS	ARTIFACTS POSITIVE/NEGATIVE
275E, 175N	0-40cm	Small pebbles at 30-40cm	N
275E, 200N		Under restrooms	
275E, 225N	0-40cm		P
275E, 250N		In road	
275E, 275N	0-35cm	Hit gravel at 30+cm	N
300E, 0N	0-45cm	Sand/pebbles at 0-30cm; silt at 30-45cm	N
300E, 25N	0-35cm	Many pebbles at base	N
300E, 50N	0-45cm	Small gravels throughout	N
300E, 75N	0-50cm	Light (white) silt at 45-50cm	N
300E, 100N (XU5)	0-45cm	Light (white) silt at 45-50cm	P
300E, 125N	0-55cm	Pebbles at 40+cm	N
300E, 150N	0-45cm		N
300E, 175N	0-40cm		N
300E, 200N	0-45cm		P
300E, 225N	0-50cm		N
300E, 255N	0-55cm	Fine light (white) silt at 50+cm	N
325E, 0N		Beach	
325E, 25N	0-45cm		N
325E, 50N	0-50cm		N
325E, 75N	0-40cm	Pea-sized gravels at base	N
325E, 100N	0-40cm	Pea-sized gravels at 30-40cm	N
325E, 125N	0-50cm	Silt	N

## SITE 32MN331

GRID LOCATION	DEPTH	COMMENTS	ARTIFACTS POSITIVE/NEGATIVE
325E, 150N	0-40cm	Light, fine (white) silt at base	N
325E, 175N	0-45cm	Light, fine (white) silt at 35+cm	N
325E, 200N	0-40cm		N
325E, 225N	0-45cm		P
350E, 25N	0-30cm	Sand/pebbles at 0-5cm; silt at 5-20cm; dense pebbles at 20+cm	N
350E, 50N	0-40cm	Light (white) fine silt at base	N
350E, 75N	0-45cm		N
350E, 100N	0-40cm		N
350E, 125N	0-40cm	Numerous pebbles at 35+cm	N
350E, 150N	0-30cm	Numerous pebbles/gravels at 20-30cm	N
350E, 175N	0-40cm	Small pebbles/gravel at 30-40cm	N
350E, 200N	0-40cm	Small gravels throughout	N
350E, 225N	0-30cm	Numerous pebbles at base	N
375E, 50N		Dunes	
375E, 75N	0-45cm	Sandy silt	N
375E, 100N	0-50cm	Pebbles at 40-50cm	N
375E, 125N	0-50cm		P
375E, 150N	0-40cm		N
375E, 175N	0-40cm	Small gravels at 30-40cm	N
375E, 200N	0-40cm	Pebbles at 30-40cm	P
400E, 125N	0-40cm	Pebbles at 30-40cm	N

## SITE 32MN331

GRID LOCATION	DEPTH	COMMENTS	ARTIFACTS POSITIVE/NEGATIVE
400E, 150N	0-40cm	Pebbles at 35-40cm	N
400E, 175N	0-25cm	Hit large pebbles	N
425E, 150N	0-30cm	Large pebbles at base	N
425E, 175N	0-40cm		N
450E, 150N	0-40cm	Sand at 0-10cm; silt with small pebbles to 40cm	N
450E, 175N	0-40cm	Light (white) silt and pebbles at base	N
275E, 145N	0-40cm	Pebbles at 30-40cm	P
275E, 140N	0-30cm	Many gravels at base	P
275E, 135N	0-30cm	Hit pebbles at base	N
275E, 130N	0-35cm	Gravels at base	P
265E, 150N	0-40cm	Small gravels at 20-40cm	N
265E, 145N	0-45cm	Few gravels	N
265E, 140N	0-40cm		N
265E, 135N	0-20cm	Hit numerous pebbles at base	N
265E, 130N	0-30cm	Pebbles at 20+cm	P
265E, 125N	0-30cm	Small gravels at 20+cm and pebbles at base	N
350E, 155N	0-45cm	Light (white) silt and pebbles at 40+cm	N
350E, 160N	0-40cm		P
350E, 165N	0-40cm		N
350E, 170N	0-40cm		N
345E, 150N	0-30cm	Gravels, pebbles at base	N
340E, 150N	0-40cm	Light (white) silt and gravels at 30+cm	N

SITE 32MN331

GRID LOCATION	DEPTH	COMMENTS	ARTIFACTS POSITIVE/NEGATIVE
335E, 150N	0-35cm	Gravels at base	P
330E, 150N	0-30cm	Light (white) silt and pebbles at 15+cm (in bottom of furrow)	N
335E, 155N	0-40cm		P
335E, 160N	0-40cm	In furrow (clear glass frag. at 20-30cm - discarded)	N
335E, 165N	0-40cm		N
335E, 170N	0-40cm	Light (white) silt and pebbles at base	N
335E, 175N	0-45cm	Light (white) silt and gravels at base.	N

APPENDIX E

TABLES SUMMARIZING THE ARTIFACTS RECOVERED FROM TEST UNITS  
AT 32MN228 and 32MN331 - BY LEVEL



## APPENDIX E: TABLE 1

Artifacts Recovered, by Unit and Level, from Site 32MN228.

ARTIFACT TYPE	XU3			*	XU4		
	L1	L2	L3		L1	L2	L3
<u>LITHICS - KRF</u>				*			
SECONDARY FLAKE				*			
Weight (g)	.6	-	-	*	-	-	-
Number	1	-	-	*	-	-	-
TERTIARY FLAKE				*			
Weight (g)	.9	7.5	10.8	*	.8	.7	2.5
Number	6	17	25	*	2	5	8
UTILIZED/ RETOUCHED FLAKE				*			
Weight (g)	1.1	2.8	-	*	-	-	-
Number	1	2	-	*	-	-	-
SHATTER				*			
Weight (g)	.7	1.9	.5	*	.6	1.0	-
Number	1	1	2	*	1	2	-
FLAKE FRAGMENT				*			
Weight (g)	.6	.4	.8	*	-	3.6	.3
Number	1	2	5	*	-	5	1
<u>LITHICS - CHERT</u>				*			
CORE				*			
Weight (g)	-	-	-	*	-	1.8	-
Number	-	-	-	*	-	1	-
SHATTER				*			
Weight (g)	-	.6	.5	*	-	-	-
Number	-	2	1	*	-	-	-
FLAKE FRAGMENT				*			
Weight (g)	-	INS	-	*	-	-	-
Number	-	1	-	*	-	-	-
<u>LITHICS - CHALCEDONY</u>				*			
TERTIARY FLAKE				*			
Weight (g)	-	.1	1.3	*	-	.1	-
Number	-	7	2	*	-	4	-
SHATTER				*			
Weight (g)	-	INS	-	*	-	.6	-
Number	-	2	-	*	-	2	-
FLAKE FRAGMENT				*			
Weight (g)	-	INS	-	*	-	-	-
Number	-	1	-	*	-	-	-
<u>LITHICS - PORCELANITE</u>				*			
TERTIARY FLAKE				*			
Weight (g)	.1	-	-	*	-	-	.3
Number	1	-	-	*	-	-	1

\*

Table E-1. (cont.)

ARTIFACT TYPE	XU3			*	XU4		
	L1	L2	L3		L1	L2	L3
<u>LITHICS - QUARTZITE</u>				*			
TERTIARY FLAKE				*			
Weight (g)	-	-	-	*	-	3.2	-
Number	-	-	-	*	-	2	-
<u>LITHICS - BASALT-LIKE</u>				*			
TERTIARY FLAKE				*			
Weight (g)	-	-	.5	*	-	-	-
Number	-	-	1	*	-	-	-
<u>FIRE-CRACKED ROCK</u>				*			
Weight (g)	49.6	-	72.8	*	-	-	-
Number	2	-	1	*	-	-	-
<u>SEEDS</u>				*			
Weight (g)	-	INS	-	*	-	INS	-
Number	-	4	-	*	-	66	-
<u>CHARCOAL</u>				*			
Weight (g)	-	-	-	*	-	INS	-
Number	-	-	-	*	-	1	-
<u>BONE</u>				*			
BONE FRAGS.				*			
Weight (g)	-	.1	1.9	*	-	.4	-
Number	-	4	2	*	-	4	-
BURNED BONE FRAGS.				*			
Weight (g)	-	.8	-	*	-	.3	-
Number	-	18	-	*	-	13	-
<u>WOOD OR MINERALIZED</u>				*			
BONE				*			
Weight (g)	-	5.6	1.2	*	-	1.5	-
Number	-	7	5	*	-	2	-
<u>YELLOW OCHRE</u>				*			
Weight (g)	.3	-	-	*	-	-	-
Number	1	-	-	*	-	-	-

Artifacts Recovered, by Level, from Test Excavation Units at Site 32MN331.

ARTIFACT TYPE	XU1			*	XU2			*	XU5			*	XU6		
	L1	L2	L3		L4	L1	L2		L3	L4	L1		L2	L3	
CERAMICS															
BODYSHERD															
Weight (g)	2.0	-	-	*	-	-	-	*	-	-	-	*	-	-	
Number	1	-	-	*	-	-	-	*	-	-	-	*	-	-	
LITHICS - KRF															
PRIMARY FLAKE															
Weight (g)	-	-	-	*	-	4.2	-	*	-	-	-	*	20.8	-	
Number	-	-	-	*	-	4	-	*	-	-	-	*	6	-	
SECONDARY FLAKE															
Weight (g)	-	-	-	*	-	-	-	*	-	-	-	*	4.0	2.4	
Number	-	-	-	*	-	-	-	*	-	-	-	*	4	2	
TERTIARY FLAKE															
Weight (g)	1.4	5.5	-	*	.5	6.5	10.67	2.4	8.2	13.2	.9	1.7	12.2	.5	
Number	4	4	-	*	3	24	16	9	14	47	6	1	32	2	
UTILIZED/ RETOUCHED FLAKE															
Weight (g)	-	-	-	*	-	2.0	1.7	-	-	2.3	-	-	-	-	
Number	-	-	-	*	-	2	1	-	-	3	-	-	-	-	
SCRAPER															
Weight (g)	-	-	-	*	-	-	-	-	-	-	-	-	-	-	
Number	-	-	-	*	-	-	-	-	-	-	-	-	-	-	
CORE															
Weight (g)	14.6	-	-	*	-	-	-	-	-	-	-	-	4.2	-	
Number	1	-	-	*	-	-	-	-	-	-	-	-	1	-	

Table E-2. (cont.)

ARTIFACT TYPE	XU1			XU2			XU5			XU6		
	L1	L2	L3	L4	L5	L6	L1	L2	L3	L4	L5	L6
<u>LITHICS - KRF (cont.)</u>												
SHATTER												
Weight (g)	.6	-	.3	-	-	-	-	4.3	INS	25.4	6.0	-
Number	1	-	1	-	-	-	-	5	1	13	16	-
FLAKE FRAGMENT												
Weight (g)	.8	.8	-	-	-	-	-	2.0	1.8	.1	3.9	-
Number	2	3	-	-	-	-	-	7	5	1	5	-
<u>LITHICS - CHERT</u>												
TERTIARY FLAKE												
Weight (g)	-	.4	-	-	-	-	-	.4	.2	-	-	-
Number	-	1	-	-	-	-	-	3	1	-	-	-
SCRAPER												
Weight (g)	-	-	-	-	-	-	-	-	-	-	-	-
Number	-	-	-	-	-	-	-	-	-	-	-	-
SHATTER												
Weight (g)	-	-	-	-	-	-	-	.4	.4	-	-	-
Number	-	-	-	-	-	-	-	1	1	-	-	-
FLAKE FRAGMENT												
Weight (g)	-	INS	-	-	-	-	-	.9	INS	-	-	-
Number	-	2	-	-	-	-	-	3	1	-	-	-

Table E-2. (cont.)

ARTIFACT TYPE	L1	L2	XU1	L3	L4	*	L1	L2	L3	L4	L5	L6	*	L1	L2	XU5	L3	L4	*	L1	L2	XU6	L3	L2	L1	*
LITHICS - CHALCEDONY																										
TERTIARY FLAKE																										
Weight (g)	-	-	-	-	-	*	-	1.0	2.8	-	-	-	*	-	-	.5	-	-	*	-	INS	-	-	INS	-	-
Number	-	-	-	-	-	*	-	6	38	-	-	-	*	-	-	9	-	-	*	-	2	-	-	2	-	-
SHATTER																										
Weight (g)	-	-	-	-	-	*	-	-	INS	-	-	-	*	-	-	INS	-	-	*	-	INS	-	-	INS	-	-
Number	-	-	-	-	-	*	-	-	2	-	-	-	*	-	-	2	-	-	*	-	1	-	-	1	-	-
FLAKE FRAGMENT																										
Weight (g)	-	1.1	-	-	-	*	-	.1	.1	-	-	-	*	-	-	.1	-	-	*	.7	-	-	-	-	-	-
Number	-	4	-	-	-	*	-	3	8	-	-	-	*	-	-	4	-	-	*	6	-	-	-	-	-	-
LITHICS - PORCELANITE																										
TERTIARY FLAKE																										
Weight (g)	-	-	-	-	-	*	-	6.6	-	1.2	.5	-	*	-	.2	-	-	-	*	.3	.1	-	-	.3	-	-
Number	-	-	-	-	-	*	-	5	-	11	3	-	*	-	1	-	-	-	*	3	1	-	-	1	-	-
BIFACE/POINT TIP																										
Weight (g)	-	-	-	-	-	*	-	-	-	-	-	-	*	-	-	-	-	-	*	.3	-	-	-	-	-	-
Number	-	-	-	-	-	*	-	-	-	-	-	-	*	-	-	-	-	-	*	1	-	-	-	-	-	-
SHATTER																										
Weight (g)	-	2.2	-	-	-	*	-	.1	-	1.1	-	-	*	-	-	-	-	-	*	-	-	-	-	-	-	-
Number	-	1	-	-	-	*	-	1	-	5	-	-	*	-	-	-	-	-	*	-	-	-	-	-	-	-
FLAKE FRAGMENT																										
Weight (g)	-	-	-	-	-	*	-	-	-	-	-	-	*	-	-	.2	-	-	*	-	-	-	-	-	-	-
Number	-	-	-	-	-	*	-	-	-	-	-	-	*	-	-	1	-	-	*	-	-	-	-	-	-	-

Table E-2. (cont.)

ARTIFACT TYPE	XU1			XU2			XU5			XU6		
	L1	L2	L3	L4	L1	L2	L3	L4	L1	L2	L3	L4
<u>LITHICS - QUARTZITE</u>												
<u>TERTIARY FLAKE</u>												
Weight (g)	-	-	-	-	-	1.1	.6	-	-	-	-	-
Number	-	-	-	-	-	2	2	-	-	-	-	-
<u>SHATTER</u>												
Weight (g)	-	-	-	-	-	-	.5	-	-	-	-	-
Number	-	-	-	-	-	-	1	-	-	-	-	-
<u>FLAKE FRAGMENT</u>												
Weight (g)	-	-	-	-	-	-	.3	-	-	-	-	-
Number	-	-	-	-	-	-	2	-	-	-	-	-
<u>LITHICS - QUARTZ</u>												
<u>SHATTER</u>												
Weight (g)	-	-	-	-	-	16.4	-	-	-	-	-	-
Number	-	-	-	-	-	1	-	-	-	-	-	-
<u>LITHICS - OBSIDIAN</u>												
<u>FLAKE FRAGMENT</u>												
Weight (g)	-	-	-	-	-	-	INS	-	-	-	-	-
Number	-	-	-	-	-	-	1	-	-	-	-	-
<u>LITHICS - TONGUE RIVER SILICA</u>												
<u>TERTIARY FLAKE</u>												
Weight (g)	-	-	-	-	-	.4	-	-	-	-	-	-
Number	-	-	-	-	-	1	-	-	-	-	-	-

Table E-2. (cont.)

ARTIFACT TYPE	XU1			XU2			XU5			XU6		
	L1	L2	L3	L4	L1	L2	L3	L4	L5	L6	L1	L2
<u>GROUND STONE/</u>												
<u>SANDSTONE</u>												
Weight (g)	-	-	-	-	-	-	-	-	29.4	405.1	-	-
Number	-	-	-	-	-	-	-	-	1	23	-	-
<u>FIRE-CRACKED ROCK</u>												
Weight (g)	-	-	207.9	-	-	175.1	302.4	140.7	-	-	-	-
Number	-	-	4	-	-	7	8	1	-	-	-	-
<u>SEEDS</u>												
Weight (g)	-	INS	-	-	-	INS	-	-	-	-	-	-
Number	-	5	-	-	-	1	-	-	-	-	-	-
<u>CHARCOAL</u>												
Weight (g)	-	INS	-	-	-	.1	INS	-	-	-	-	-
Number	-	1	-	-	-	10	49	-	-	-	-	-
<u>BONE</u>												
<u>DENTINE/ENAMEL FRAGS.</u>												
Weight (g)	-	-	-	-	-	1.5	7.9	.1	.3	-	-	-
Number	-	-	-	-	-	6	72	1	1	-	-	-
<u>BONE FRAGS.</u>												
Weight (g)	-	1.3	-	.5	.3	5.4	15.6	.6	21.9	2.7	-	-
Number	-	6	-	1	1	16	136	3	31	2	-	-
<u>BURNED BONE FRAGS.</u>												
Weight (g)	-	-	-	-	.3	2.8	2.2	-	2.3	-	-	-
Number	-	-	-	-	1	13	54	-	9	-	-	-

APPENDIX F

ARTIFACT CATALOG SHEETS



KEY TO SEED TYPES I - IX REFERRED TO IN THE CATALOG SHEETS

TYPE	SEED NAME	CATALOG #	SITE	REFERENCE
I	? Mint ( <u>Mentha canadensis</u> )	221(1)*, 393(1)	32MN331	Martin and Barkley 1973:99, 196
II	? Lambsquarters ( <u>Chenopodium album</u> )	91(4), 219(1), 234(3), 264(4), 266 (ca. 9), 296(78), 298(388+)	32MN331 " "	Martin and Barkley 1973:16, 151; Slife et al. 1960:47
		370(1), 392(5), 393(ca. 58)	32MN228 "	
III	? Filaree ( <u>Erodium cicutarium</u> )	368(1), 370(1), 393(3)	32MN228	Martin and Barkley 1973:29, 174
IV	? Cornbind ( <u>Polygonum convolvulus</u> ) (also Wild Buckwheat, Black bind- weed)	264(14½), 266(ca. 4)	32MN331	Martin and Barkley 1973:16, 147, 150; Slife et al. 1960:41
V	? Spurge ( <u>Euphorbia maculata</u> )	297(1)	32MN331	Martin and Barkley 1973:31, 175, 177
VI	Seed pods?	371(1)	32MN228	
VII	? Pigweed ( <u>Amaranthus retroflexus</u> )	198(1)	32MN331	Martin and Barkley 1973:17, 153; Slife et al. 1960:55
VIII	? Tarweed ( <u>Hemizonia congesta</u> )	90(1)	32MN331	Martin and Barkley 1973:60, 204
IX	? Pigweed ( <u>Amaranthus</u> )	266(2)	32MN331	Martin and Barkley 1973:17, 153

\* ( ) equals number of seed type recovered for each catalog number.

Martin, Alexander C., and William D. Barkley  
1973 Seed Identification Manual. University of California Press, Berkeley.

Slife, F.W., K.P. Buchholtz, and T. Kommedahl  
1960 Weeds of the North Central States. Revised edition. Circular 718. University of Illinois  
Agricultural Experiment Station, Urbana. North Central Regional Publication No. 36.  
Originally published 1954.

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County: Mountrail  
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CATALOG NO	DESCRIPTION	LOCATION	DEPTH	DATE	COMMENTS
1	Utilized flake (tertiary?), KRF No. items: 1; Wt.: 3.02g *Range: 24.33mm	Point Plot 1	Surface	4/28/88	Unpatinated
2	Utilized flake (tertiary?), KRF No. items: 1; Wt.: 1.4g Range: 22.47mm	Point Plot 2	Surface	4/28/88	Slight patination
3	Tertiary flake (fragment?), KRF No. items: 1; Wt.: 0.95g Range: 18.495mm	Point Plot 3	Surface	4/28/88	Slight patination
4	Retouched flake, KRF No. items: 1; Wt.: 1.23g Range: 18.85mm	Point Plot 4	Surface	4/28/88	Slight patination
5	Secondary flake, gray TRS No. items: 1; Wt.: 11.24g Range: 38.22mm	Point Plot 4	Surface	4/28/88	
6	Flake fragment, KRF No. items: 1; Wt.: 0.38g Range: 14.895mm	Point Plot 5	Surface	4/28/88	Unpatinated
7	Shatter, KRF No. items: 1; Wt.: 2.34g Range: 22.2mm	Point Plot 5	Surface	4/28/88	Slight patination
8	Tertiary flake, KRF No. items: 1; Wt.: 0.33g Range: 17.41mm	Point Plot 6	Surface	4/28/88	Unpatinated

\* Range = Range in size of two or more items/maximum size of one item

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CATALOG NO	DESCRIPTION	LOCATION	DEPTH	DATE	COMMENTS
9	Secondary? flake, KRF No. items: 1; Wt.: 2.1g Range: 27.275mm	Point Plot 7	Surface	4/28/88	Unpatinated
10	Tertiary flake, KRF No. items: 1; Wt.: 1.93g Range: 26.98mm	Point Plot 7	Surface	4/28/88	Slight patination
11	Shatter, KRF No. items: 1; Wt.: 3.56g Range: 31.01mm	Point Plot 8	Surface	4/28/88	
12	Tertiary flake, KRF No. items: 1; Wt.: 1.36g Range: 25.27mm	Point Plot 9	Surface	4/28/88	Moderate to heavy patination
13	Tertiary flake fragment, probably chalcedony No. items: 1; Wt.: 0.25g Range: 13.31mm	Point Plot 10	40cm bs	4/29/88	In situ, cutbank
14	Secondary flake, KRF No. items: 1; Wt.: 1.9g Range: 23.835mm	Point Plot 11	10cm bs	4/29/88	Unpatinated In situ, cutbank
15	Tertiary flake, KRF No. items: 1; Wt.: 2.25g Range: 25.51mm	Point Plot 12	Surface	4/29/88	Unpatinated
16	Tertiary flake, white chert No. items: 1; Wt.: 0.62g Range: 19.65mm	Point Plot 13	Surface	4/29/88	

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CATALOG NO	DESCRIPTION	LOCATION	DEPTH DATE	COMMENTS
17	Tertiary flake fragment, KRF No. items: 1; Wt.: 0.21g Range: 12.385mm	Point Plot 14	Surface 4/29/88	Slight patination
18	Burin faceted graver, KRF No. items: 1; Wt.: 1.3g Range: 26.015mm	Point Plot 15	Surface 4/29/88	Unpatinated On cut step down cutbank
19	Retouched flake?, KRF No. items: 1; Wt.: 0.96g Range: 17.93mm	Point Plot 16	29.5cm bs 4/29/88	Slight to moderate patination In situ, cutbank
20	Secondary flake, KRF No. items: 1; Wt.: 1.37g Range: 22.015mm	Point Plot 17	Surface 4/29/88	Slight to moderate patination
21	Tertiary prismatic reduction flake, KRF No. items: 1; Wt.: 0.74g Range: 18.655mm	Point Plot 18	Surface 5/1/88 in road	Slight patination
22	Utilized flake?, gray chert No. items: 1; Wt.: 1.13g Range: 16.755mm	Point Plot 21	Surface 5/3/88	
23	Tertiary flake, gray chert No. items: 4; Wt.: 7.63g Range: 9.215-32.46mm	Point Plot 21	Surface 5/3/88	
24	Flake fragment, gray chert No. items: 1; Wt.: 0.29g Range: 9.815mm	Point Plot 21	Surface 5/3/88	

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CATALOG NO	DESCRIPTION	LOCATION	DEPTH	DATE	COMMENTS
25	Shatter, KRF No. items: 1; Wt.: 0.23g Range: 9.66mm	Point Plot 21	Surface	5/3/88	Unpatinated
26	Plastic, yellowish-brown No. items: 1; Wt.: 0.23g Range: 24.345mm	Point Plot 21	Surface	5/3/88	
27	Tertiary flake, KRF No. items: 1; Wt.: 5.32g Range: 51.795mm	Point Plot 22	Surface	5/3/88	Slight patination
28.	Secondary flake fragment, KRF No. items: 1; Wt.: 1.73g Range: 22.14mm	Point Plot 23	Surface	5/3/88	Unpatinated
29	Flake fragment? (secondary), KRF No. items: 1; Wt.: 2.44g Range: 29.135mm	Point Plot 24	Surface	5/3/88	Unpatinated
30	Flake fragment?, KRF No. items: 1; Wt.: 0.65g Range: 16.505mm	Point Plot 25	Surface	5/3/88	Unpatinated
31	Secondary flake, KRF No. items: 1; Wt.: 0.37g Range: 18.025mm	Point Plot 26	Surface	5/3/88	Slight patination
32	Tertiary flake, KRF No. items: 1; Wt.: 0.3g Range: 11.71mm	Point Plot 26	Surface	5/3/88	Unpatinated

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CATALOG NO	DESCRIPTION	LOCATION	DEPTH	DATE	COMMENTS
33	Shatter, KRF No. items: 1; Wt.: 0.15g Range: 12.19mm	Point Plot 26	Surface	5/3/88	Unpatinated
34	Flake fragment, KRF No. items: 1; Wt.: 0.02g Range: 6.015mm	Point Plot 26	Surface	5/3/88	Unpatinated
35	Tertiary flake, KRF No. items: 1; Wt.: 2.2g Range: 29.89mm	Point Plot 27	Surface	5/3/88	Unpatinated
36	Shatter, KRF No. items: 1; Wt.: 1.03g Range: 17.97mm	Auger Test 3 Vaults	0-10cm	5/1/88	Unpatinated
37	Flake fragment, KRF No. items: 2; Wt.: 0.12g Range: 6.67-8.02mm	Auger Test 3 Vaults	0-10cm	5/1/88	Unpatinated
38	Tertiary flake, KRF No. items: 1; Wt.: 0.05g Range: 7.26mm	Auger Test 4 Vaults	0-10cm	5/1/88	Unpatinated
39	Round wire nail - wood finishing No. items: 1; Wt.: 0.8g Range: 1.98-37.12mm	Auger Test 4 Vault	0-10cm	5/1/88	
40	Tertiary flake, KRF No. items: 1; Wt.: 0.03g Range: 6.84mm	Auger Test 4 Vault	20-30cm	5/1/88	Slight patination

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CATALOG NO	DESCRIPTION	LOCATION	DEPTH	DATE	COMMENTS
41	Tertiary flake, KRF No. items: 1; Wt.: 0.04g Range: 7.66mm	Auger Test A Vault & Field Draw - 50 ft. from bait shop	30-40cm	4/30/88	Slight patination
42	Tertiary flake, KRF No. items: 1; Wt.: 0.12g Range: 11.58mm	Auger Test E Vault & Field Draw - Central drain S end	20-30cm	4/30/88	Unpatinated
43	Tertiary flake, KRF No. items: 1; Wt.: 1g Range: 21.76mm	Auger Test H Vault & Field Draw - E Draw N end	20-30cm	4/30/88	Unpatinated
44	Tooth, enamel fragments from one tooth, ? possibly elk (Cervus elaphus) No. items: 12; Wt.: 1.65g Range: 23.33mm	Auger Test J Vault & Field Draw - W Draw 2nd test W	0-10cm	5/1/88	
45	Flake fragment, KRF No. items: 1; Wt.: 0.06g Range: 7.425mm	Auger Test 200E, 50N	10-20cm	5/1/88	Slight patination
46	Shatter, KRF No. items: 1; Wt.: 0.05g Range: 8.795mm	Auger Test 200E, 100N	30-40cm	5/1/88	Slight patination
47	Shatter, KRF No. items: 1; Wt.: 2.37g Range: 25.225mm	Auger Test 250E, 100N	10-20cm	5/1/88	Unpatinated

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CATALOG NO	DESCRIPTION	LOCATION	DEPTH	DATE	COMMENTS
48	Tertiary flake, KRF No. items: 1; Wt.: 0.14g Range: 10.92mm	Auger Test 265E, 130N	10-20cm	5/1/88	Slight patination
49	Flake fragment, KRF No. items: 1; Wt.: 0.10g Range: 9.055mm	Auger Test 275E, 50N	40-50cm	5/1/88	Unpatinated
50	Tertiary flake, KRF No. items: 1; Wt.: 0.04g Range: 6.455mm	Auger Test 275E, 130N	10-20cm	5/1/88	Unpatinated
51	Flake fragment, KRF No. items: 1; Wt.: 0.10g Range: 9.465mm	Auger Test 275E, 140N	20-30cm	5/1/88	Unpatinated
52	Flake fragment, KRF No. items: 1; Wt.: 0.03g Range: 8.85mm	Auger Test 275E, 145N	10-20cm	5/1/88	Unpatinated
53	Tertiary flake, KRF No. items: 2; Wt.: 0.16g Range: 5.82-11.02mm	Auger Test 275E, 225N	0-10cm	5/1/88	Slight patination
54	Shatter, KRF No. items: 1; Wt.: 0.15g Range: 11.42mm	Auger Test 300E, 100N	10-20cm	5/1/88	Unpatinated
55	Tertiary flake, porcelainite No. items: 1; Wt.: 0.03g Range: 5.85mm	Auger Test 300E, 100N	10-20cm	5/1/88	



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CATALOG NO	DESCRIPTION	LOCATION	DEPTH	DATE	COMMENTS
56	Shatter, porcelainite No. items: 1; Wt.: 0.05g Range: 6.79mm	Auger Test 300E, 100N	10-20cm	5/1/88	
57	Tertiary flake, porcelainite No. items: 1; Wt.: 0.14g Range: 13.03mm	Auger Test 300E, 100N	20-30cm	5/1/88	
58	Tertiary flake, KRF No. items: 1; Wt.: 0.03g Range: 4.905mm	Auger Test 300E, 200N	0-10cm	5/1/88	Unpatinated
59	Tertiary flake, KRF No. items: 1; Wt.: 0.26g Range: 10.505mm	Auger Test 325E, 225N	30-40cm	5/1/88	Slight to moderate patination
60	Tertiary flake, KRF No. items: 1; Wt.: 0.11g Range: 9.32mm	Auger Test 335E, 150N	0-10cm	5/1/88	Very slight patination
61	Flake fragment, KRF No. items: 1; Wt.: 0.03g Range: 6.92mm	Auger Test 335E, 155N	0-10cm	5/1/88	Unpatinated
62	Shatter, KRF No. items: 1; Wt.: 0.70g Range: 15.145mm	Auger Test 335E, 155N	0-10cm	5/1/88	Slight patination
63	Tertiary flake, KRF No. items: 1; Wt.: 0.12g Range: 10.64mm	Auger Test 335E, 155N	10-20cm	5/1/88	Unpatinated

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CATALOG NO	DESCRIPTION	LOCATION	DEPTH	DATE	COMMENTS
64	Shatter, KRF No. items: 1; Wt.: 0.15g Range: 10.7mm	Auger Test 350E, 160N	0-10cm	5/1/88	Unpatinated
65	Tertiary flake, KRF No. items: 2; Wt.: 0.16g Range: 6.98-9.85mm	Auger Test 350E, 160N	20-30cm	5/1/88	Slight patination
66	Tertiary flake, porcelainite? No. items: 1; Wt.: 0.01g Range: 5.5mm	Auger Test 375E, 125N	10-20cm	5/1/88	
67	Secondary flake fragment, KRF No. items: 1; Wt.: 0.40g Range: 13.09mm	Auger Test 375E, 200N	0-10cm	5/1/88	Unpatinated
68	Bodysherd, burnished No. items: 1; Wt.: 2.04g Range (thickness): 8.25-8.63mm Color (exterior) 10YR 6/3 - pale brown	XU1 1/4" screen	0-10cm	4/28/88	
69	Core, KRF No. items: 1; Wt.: 14.56g Range: 34.335mm	XU1 1/4" screen	0-10cm	4/28/88	Very slight patination
70	Tertiary flake, KRF No. items: 4; Wt.: 1.4g Range: 7.84-17.305mm	XU1 1/4" screen	0-10cm	4/28/88	Slight patination

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CATALOG NO	DESCRIPTION	LOCATION	DEPTH	DATE	COMMENTS
71	Flake fragment, KRF No. items: 2; Wt.: 0.84g Range: 10.51-14.73mm	XU1 1/4" screen	0-10cm	4/28/88	Unpatinated
72	Shatter, KRF No. items: 1; Wt.: 0.64g Range: 18.09mm	XU1 1/4" screen	0-10cm	4/28/88	Unpatinated
73	Tertiary flake, KRF No. items: 2; Wt.: 0.20g Range: 4.75-9.36mm	XU1 1/8" screen	10-20cm	4/28/88	Unpatinated
74	Flake fragment, chalcedony No. items: 1; Wt.: 0.03g Range: 6.245mm	XU1 1/8" screen	10-20cm	4/28/88	
75	Tertiary flake, KRF No. items: 2; Wt.: 5.31g Range: 8.2-43.15mm	XU1 1/4" screen	10-20cm	4/28/88	Slight to moderate patination
76	Flake fragment, KRF No. items: 3; Wt.: 0.83g Range: 9-15.4mm	XU1 1/4" screen	10-20cm	4/28/88	Slight patination
77	Tertiary flake, white chert No. items: 1; Wt.: 0.40g Range: 15.495mm	XU1 1/4" screen	10-20cm	4/28/88	
78	Shatter?, porcelanite? No. items: 1; Wt.: 2.23g Range: 29.54mm	XU1 1/4" screen	10-20cm	4/28/88	

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CATALOG NO	DESCRIPTION	LOCATION	DEPTH	DATE	COMMENTS
79	Bone No. items: 5; Wt.: 1.20g Range: 6.135-19.765mm	XU1 1/4" screen	10-20cm	4/28/88	
80	Charcoal flecks No. items: - ; Wt.: - Range:-	XU1 1/4" screen	10-20cm	4/28/88	
81	Shatter, KRF No. items: 1; Wt.: 0.28g Range: 12.81mm	XU1 1/4" screen	20-30cm	4/28/88	Moderate patination
82	Fire-cracked rock No. items: 4; Wt.: 207.88g Range: 17.86-66.52mm	XU1 1/4" screen	20-30cm	4/28/88	
83	Bone fragment No. items: 1; Wt.: 0.54g Range: 20.28mm	XU1 1/4" screen	30-40cm	4/28/88	
84	Sample #2, Soil sample No. items: 1; Wt.: - Range: -	XU1 Pollen sample 1	5-9cm	4/28/88	
85	Sample #3, Soil sample No. items: 1; Wt.: - Range: -	XU1 Pollen sample 2	22-26cm	4/28/88	

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County: MOUNTRAIL  
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CATALOG NO	DESCRIPTION	LOCATION	DEPTH	DATE	COMMENTS
86	SE corner Flotation residue Sample #1 Flake fragment, brown chalcedony No. items: 3; Wt.: 1.1g Range: 3-15.5mm	XU1	10-20cm	4/28/88	
87	SE corner Flotation residue Sample #1 Flake fragment, gray chert No. items: 2; Wt.: Insignificant Range: 2.5-5mm	XU1	10-20cm	4/28/88	
88	SE corner Flotation residue Sample #1, Bone No. items: 1; Wt.: 0.05g Range: 5.75mm	XU1	10-20cm	4/28/88	
89	SE corner Flotation residue Sample #1, Gravel/sand No. items: - ; Wt.: 47.58g Range: 2-20.5mm	XU1	10-20cm	4/28/88	Discarded
90	SE corner Flotation - 1g. flot Sample #1, Seed (VIII) No. items: 1; Wt.: Insignificant Range: 2.5mm	XU1	10-20cm	4/28/88	Some small gravels- discarded
91	SE corner Flotation - small flot Sample #1, Seed (see II) No. items: 4; Wt.: Insignificant Range: ca. 0.75mm	XU1	10-20cm	4/28/88	

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92	SE corner Flotation - small flot Sample #1 Charcoal fleck No. items: 1; Wt.: Insignificant Range: Insignificant	XU1	10-20cm	4/28/88	
93	Tertiary flake, KRF No. items: 3; Wt.: 0.45g Range: 7.385-11.345mm	XU2 1/4" screen	0-10cm	4/29/88	Very slight patination
94	Shatter, pink chert No. items: 1; Wt.: 0.41g Range: 12.36mm	XU2 1/4" screen	0-10cm	4/29/88	
95	Possible fire-cracked rock, granite No. items: 2; Wt.: 109.72g Range: 20.57-65.32mm	XU2 1/4" screen	0-10cm	4/29/88	
96	Burned bone fragment No. items: 1; Wt.: 0.34g Range: 10.545mm	XU2 1/4" screen	0-10cm	4/29/88	
97	Bone fragment - cut with saw? No. items: 1; Wt.: 0.25g Range: 13.68mm	XU2 1/4" screen	0-10cm	4/29/88	
98	"Charcoal" briquette No. items: 1; Wt.: ca. 11.9g Range: 45.345mm	XU2 1/4" screen	0-10cm	4/29/88	

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CATALOG NO	DESCRIPTION	LOCATION	DEPTH	DATE	COMMENTS
99	22 caliber bullet casing rimfire "H" No. items: 1; Wt.: 0.64g Range: 15.55mm	XU2 1/4" screen	0-10cm	4/29/88	22 long - by Remington Union Metallic Cartridge Co.
100	22 caliber bullet casing rimfire "U" No. items: 1; Wt.: 0.64g Range: 15.53mm	XU2 1/4" screen	0-10cm	4/29/88	22 long - by Winchester Repeating Arms
101	Round wire nail - twisted No. items: 7; Wt.: 18.54g Range: 3.12-58.74mm	XU2 1/4" screen	0-10cm	4/29/88	'Flooring' nails
102	Melted lead glob No. items: 1; Wt.: 3.6g Range: 17.59mm	XU2 1/4" screen	0-10cm	4/29/88	
103	Flattened wire coil - brass? No. items: 1; Wt.: 0.46g Range: 10.465mm	XU2 1/4" screen	0-10cm	4/29/88	
104	Aluminum pop-top tab No. items: 2; Wt.: 0.90g Range: 13.92-22.385mm	XU2 1/4" screen	0-10cm	4/29/88	
105	Clear bottle glass fragment No. items: 2; Wt.: 1.55g Range: 8.315-19.435mm Thickness: 2.635-3.775mm	XU2 1/4" screen	0-10cm	4/29/88	

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106	Cigarette paper - filter tip? No. items: 1; Wt.: 0.10g Range: 17.75mm	XU2 1/4" screen	0-10cm	4/29/88	
107	Charcoal frags. - historic feature Sample #4 No. items: 29+; Wt.: 14.53g Range: ca. 4-49.7mm	XU2 1/4" screen	0-10cm	4/29/88	
108	Tertiary flake, KRF No. items: 8; Wt.: 0.43g Range: 3.225-7.66mm	XU2 1/8" screen	10-20cm	4/29/88	Very slight patination
109	Flake fragment, KRF No. items: 2; Wt.: 0.05g Range: 4.34-5.39mm	XU2 1/8" screen	10-20cm	4/29/88	Slight patination
110	Tertiary flake, porcelanite? No. items: 1; Wt.: 0.14g Range: 13.675mm	XU2 1/8" screen	10-20cm	4/29/88	(2 pieces)
111	Shatter, porcelanite? No. items: 1; Wt.: 0.05g Range: 6.055mm	XU2 1/8" screen	10-20cm	4/29/88	
112	Tooth/dentine & enamel fragment No. items: 1; Wt.: 0.22g Range: 10.96mm	XU2 1/8" screen	10-20cm	4/29/88	
113	Charcoal fragment No. items: ca. 5; Wt.: 0.04g Range: 0.5-6.42mm	XU2 1/8" screen	10-20cm	4/29/88	



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114	Unifacially retouched piece, KRF Distal tip of drill/borer No. items: 1; Wt.: 1.45g Range: 22.3mm	XU2 1/4" screen	10-20cm	4/29/88	Very slight patination
115	Retouched flake?, KRF No. items: 1; Wt.: 0.57g Range: 20.33mm	XU2 1/4" screen	10-20cm	4/29/88	Slight patination
116	Tertiary flake, KRF No. items: 16; Wt.: 6.08g Range: 7.715-25.97mm	XU2 1/4" screen	10-20cm	4/29/88	Unpatinated to slight patination
117	Flake fragment, KRF No. items: 5; Wt.: 1.97g Range: 6.645-20.86mm	XU2 1/4" screen	10-20cm	4/29/88	Unpatinated to slight patination
118	Shatter, KRF No. items: 5; Wt.: 4.33g Range: 7.765-30.295mm	XU2 1/4" screen	10-20cm	4/29/88	Unpatinated to slight patination
119	Tertiary flake, gray quartzite No. items: 1; Wt.: 0.67g Range: 20.25mm	XU2 1/4" screen	10-20cm	4/29/88	
120	Tertiary flake, brown quartzite No. items: 1; Wt.: 0.40g Range: 11.21mm	XU2 1/4" screen	10-20cm	4/29/88	
121	Tertiary flake, gray TRS No. items: 1; Wt.: 0.40g Range: 15.3mm	XU2 1/4" screen	10-20cm	4/29/88	

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122	Flake fragment, dark brown chert No. items: 1; Wt.: 0.56g Range: 14.71mm	XU2 1/4" screen	10-20cm	4/29/88	
123	Tertiary flake, gray chalcedony No. items: 2; Wt.: 0.90g Range: 10-17.98mm	XU2 1/4" screen	10-20cm	4/29/88	
124	Tertiary flake, porcelainite No. items: 4; Wt.: 6.43g Range: 9.353-36.16mm	XU2 1/4" screen	10-20cm	4/29/88	
125	Tertiary flake, pink chert No. items: 1; Wt.: 0.36g Range: 12.9mm	XU2 1/4" screen	10-20cm	4/29/88	
126	Shatter, pink chert No. items: 6; Wt.: 13.25g Range: 6.385-35.01mm	XU2 1/4" screen	10-20cm	4/29/88	
127	Shatter, gray chert No. items: 5; Wt.: 20.66g Range: 9.745-30.09mm	XU2 1/4" screen	10-20cm	4/29/88	
128	Shatter, white quartz? No. items: 1; Wt.: 16.38g Range: 40.44mm	XU2 1/4" screen	10-20cm	4/29/88	
129	Flake fragment?, brown chert No. items: 1; Wt.: 0.36g Range: 19.905mm	XU2 1/4" screen	10-20cm	4/29/88	

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130	Fire-cracked rock No. items: 7; Wt.: 175.12g Range: 10.345-69.03mm	XU2 1/4" screen	10-20cm	4/29/88	
131	Bone & dentine &/or enamel frags. No. items: 19; Wt.: 9.16g Range: 6.74-39.135mm	XU2 1/4" screen	10-20cm	4/29/88	9 bone frags., 5.21g 5 dentine frags., 1.24g 5 burned frags., 2.71g
132	Charcoal fragment No. items: 1; Wt.: 0.02g Range: 5.09mm	XU2 1/4" screen	10-20cm	4/29/88	
133	Tertiary flake, KRF No. items: 1; Wt.: 0.04g Range: 5.86mm	XU2 1/8" screen	20-30cm	4/29/88	Unpatinated
134	Flake fragment?, gray chert (broken in field) No. items: 1; Wt.: 0.03g Range: 6.94mm	XU2 1/8" screen	20-30cm	4/29/88	
135	Fire-cracked rock, granite No. items: 1; Wt.: 60.34g Range: 53.65mm	XU2 1/8" screen	20-30cm	4/29/88	
136	Flake fragment, KRF No. items: 1; Wt.: 1.17g Range: 27.985mm	XU2 Plot #1	20-30cm	4/29/88	Very slight patination
137	Flake fragment, KRF No. items: 2; Wt.: 0.01g Range: 2.145-5.55mm	XU2 Plot #2	20-30cm	4/29/88	Unpatinated

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138	Shatter, KRF No. items: 1; Wt.: 0.03g Range: 3.9mm	XU2 Plot #2	20-30cm	4/29/88	Unpatinated
139	Bone and burned bone fragments No. items: 19; Wt.: 3.81g Range: 1.56-29.3mm	XU2 Plot #2	20-30cm	4/29/88	3 burned frags., 0.14g 16 bone frags., 3.67g
140	Fire-cracked rock, granite No. items: 1; Wt.: 3.81g Range: 19.3mm	XU2 Plot #2	20-30cm	4/29/88	
141	Enamel tooth fragments, Cervid (same tooth?) No. items: 57; Wt.: 6.87g Range: 1.27-32.365mm	XU2 Plot #3	20-30cm	4/29/88	
142	Tertiary flake, KRF No. items: 1; Wt.: 0.04g Range: 8.645mm	XU2 Plot #3	20-30cm	4/29/88	Unpatinated
143	Fire-cracked rock, granite No. items: 1; Wt.: 65.0g Range: 59.7mm	XU2 Plot #4	10-20/ 20-30cm	4/29/88	
144	Burned bone No. items: 4; Wt.: 0.22g Range: 4.08-9.72mm	XU2 Plot #5	20-30cm	4/29/88	
145	Shale fragments (black) No. items: 2; Wt.: 0.10g Range: 2.215-5.52mm	XU2 Plot #5	20-30cm	4/29/88	Discarded

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146	Tertiary reduction flake, KRF No. items: 1; Wt.: 6.27g Range: 34.38mm	XU2 1/4" screen	20-30cm	4/30/88	Slight to moderate patination
147	Tertiary flake, KRF No. items: 13; Wt.: 4.35g Range: 7.04-22.975mm	XU2 1/4" screen	20-30cm	4/30/88	Slight to moderate patination
148	Flake fragment, KRF No. items: 2; Wt.: 0.63g Range: 9.69-12.48mm	XU2 1/4" screen	20-30cm	4/30/88	Slight to moderate patination
149	Tertiary flake, gray chert No. items: 1; Wt.: 0.15g Range: 11.25mm	XU2 1/4" screen	20-30cm	4/30/88	
150	Tertiary flake, gray quartzite? No. items: 1; Wt.: 0.52g Range: 16.775mm	XU2 1/4" screen	20-30cm	4/30/88	
151	Shatter, gray chert No. items: 1; Wt.: 0.40g Range: 14.155mm	XU2 1/4" screen	20-30cm	4/30/88	
152	Shatter, gray quartzite? No. items: 1; Wt.: 0.51g Range: 11.87mm	XU2 1/4" screen	20-30cm	4/30/88	
153	Flake fragment, brown quartzite No. items: 1; Wt.: 0.23g Range: 13.005mm	XU2 1/4" screen	20-30cm	4/30/88	

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154	Bone & enamel fragments No. items: 13; Wt.: 9.89g Range: 4.07-33.40mm	XU2 1/4" screen	20-30cm	4/30/88	2 burned frags., 0.72g 3 enamel frags., 0.67g 8 bone frags., 8.5g
155	Fire-cracked rock, granite No. items: ca. 5; Wt.: 173.27g Range: 10.34-59.55mm	XU2 1/4" screen	20-30cm	4/30/88	
156	Tertiary flake, KRF No. items: 6; Wt.: 0.22g Range: 3.97-9.88mm	XU2 1/8" screen	30-40cm	4/30/88	Slight to moderate patination
157	Flake fragment, KRF No. items: 1; Wt.: 0.05g Range: 8.22mm	XU2 1/8" screen	30-40cm	4/30/88	Slight patination
158	Shatter, KRF No. items: 1; Wt.: 0.31g Range: 13.56mm	XU2 1/8" screen	30-40cm	4/30/88	Slight patination
159	Tertiary flake, porcelainite? No. items: 5; Wt.: 0.40g Range: 4.56-12.25mm	XU2 1/8" screen	30-40cm	4/30/88	
160	Shatter, porcelainite? No. items: 2; Wt.: 0.22g Range: 4.145-10.965mm	XU2 1/8" screen	30-40cm	4/30/88	
161	Burned bone and enamel No. items: 4; Wt.: 0.60g Range: 3.735-16.06mm	XU2 1/8" screen	30-40cm	4/30/88	1 enamel frag., 0.05g 3 bone frags., 0.55g

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162	Tertiary flake, KRF No. items: 12; Wt.: 2.57g Range: 7.635-16.725mm	XU2 1/4" screen	30-40cm	4/30/88	Moderate patination
163	Shatter, KRF or mineralized wood No. items: 12; Wt.: 25.05g Range: 5.36-38.10mm	XU2 1/4" screen	30-40cm	4/30/88	Slight patination
164	Tertiary flake, porcelainite? No. items: 6; Wt.: 0.80g Range: 7.72-13.28mm	XU2 1/4" screen	30-40cm	4/30/88	
165	Shatter, porcelainite? No. items: 3; Wt.: 0.90g Range: 8.175-15.175mm	XU2 1/4" screen	30-40cm	4/30/88	
166	Possible fire-cracked rock, granite No. items: 1; Wt.: 140.65g Range: 66.45mm	XU2 1/4" screen	30-40cm	4/30/88	
167	Concretion fragments No. items: 4; Wt.: 1.10g Range: 6.585-11.225mm	XU2 1/4" screen	30-40cm	4/30/88	Discarded
168	Grinding stone fragment?, sandstone No. items: 1; Wt.: 29.4g Range: 56.59mm	XU2 1/4" screen	30-40cm	4/30/88	

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169	Tertiary flake, KRF No. items: 1; Wt.: 0.50g Range: 16.01mm	XU2 1/8" screen	40-50cm	4/30/88	Moderate patination
170	Flake fragment, KRF No. items: 1; Wt.: 0.03g Range: 7.42mm	XU2 1/8" screen	40-50cm	4/30/88	Slight to moderate patination
171	Concretion No. items: 1; Wt.: 0.03g Range: 5.63mm	XU2 1/8" screen	40-50cm	4/30/88	Discarded
172	Grinding stone frags.?, sandstone No. items: 9; Wt.: 81.93g Range: 9.76-55.71mm	XU2 1/4" screen	40-50cm	4/30/88	Possibly heat-cracked
173	Primary flake, KRF No. items: 4; Wt.: 4.21g Range: 9.115-28.77mm	XU2 1/4" screen	40-50cm	4/30/88	Moderate patination
174	Flake fragments, KRF No. items: 4; Wt.: 3.88g Range: 8.255-26.05mm	XU2 1/4" screen	40-50cm	4/30/88	1 secondary, 3.28g; 3 tertiary, 0.60g Slight to moderate patination
175	Tertiary flake, KRF/? No. items: 33; Wt.: 13.3g Range: 7.71-32.73mm	XU2 1/4" screen	40-50cm	4/30/88	Slight (12) and moderate to heavy (16) patination
176	Shatter, KRF/mineralized wood?, and/or gray chert or porcelanite? No. items: 16; Wt.: 5.98g Range: 7.245-19.325mm	XU2 1/4" screen	40-50cm	4/30/88	



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177	Tertiary flake, porcelanite? No. items: 3; Wt.: 0.53g Range: 7.89-9.80mm	XU2 1/4" screen	40-50cm	4/30/88	
178	Bone (some amphibian?) and burned bone fragments No. items: ca. 38; Wt.: 15.53g Range: 2.19-52.45mm	XU2 1/4" screen	40-50cm	4/30/88	Longest bone fragment was sitting on the metate in situ. 29 bone frags., 13.23g 9 burned frags., 2.30g
179	Tooth fragment, 1st right incisor, deer (Cervid) No. items: 1; Wt.: 0.25g Range: 12.21mm (incomplete)	XU2 1/4" screen	40-50cm	4/30/88	
180	Concretion fragment No. items: 3; Wt.: 28.24g Range: 11.61-37.505mm	XU2 1/4" screen	40-50cm	4/30/88	Discarded
181	Sandstone fragment No. items: 2; Wt.: 1.17g Range: 10.67-13.33mm	XU2 1/4" screen	40-50cm	4/30/88	
182	Right mandible fragment, deer, (Cervid) No. items: 2; Wt.: 8.68g Range: 43.57mm	XU2 1/4" screen	40-50cm	4/30/88	2 & 3 premolars
183	Metate fragment, weathering sandstone No. items: ca. 12; Wt.: 322.03g Range: 124.34mm	XU2 1/4" screen	40-50cm	4/30/88	

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184	Secondary flake, KRF No. items: 1; Wt.: 0.26g Range: 12.02mm	XU2 1/4" screen	50-60cm	4/30/88	Moderate patination
185	Tertiary flake, KRF No. items: 9; Wt.: 2.4g Range: 6.67-22.175mm	XU2 1/4" screen	50-60cm	4/30/88	Moderate to heavy patination
186	Bone fragment No. items: 2; Wt.: 2.7g Range: 7.52-22.78mm	XU2 1/4" screen	50-60cm	4/30/88	
187	Concretion No. items: 1; Wt.: 0.11g Range: 8.3mm	XU2 1/4" screen	50-60cm	4/30/88	Discarded
188	Sample #7, Pollen sample No. items: 1; Wt.: - Range: -	XU2	5-10cm	4/30/88	
189	Sample #8, Pollen sample No. items: 1; Wt.: - Range: -	XU2	15-20cm	4/30/88	
190	Sample #10, Pollen sample No. items: 1; Wt.: - Range: -	XU2	35-40cm	4/30/88	
191	Sample #11, Pollen sample No. items: 1; Wt.: - Range: -	XU2	50-55cm	4/30/88	

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192	Sample #5, Flotation residue Debitage, brown chalcodony No. items: 6; Wt.: 0.2g Range: 2-10mm	XU2	10-20cm	4/29/88	3 tertiary flakes, 0.08g; 3 flake frags., 0.12g Slight patination
193	Sample #5, Flotation residue Tertiary flake, gray chert No. items: 1; Wt.: Insignificant Range: 3.5mm	XU2	10-20cm	4/29/88	
194	Sample #5, Flotation residue Tertiary flake and flake fragment, red chert No. items: 2; Wt.: 0.06g Range: 2.5-7.5mm	XU2	10-20cm	4/29/88	1 tertiary flake, 0.04g; 1 flake frag., 0.02g
195	Sample #5, Flotation residue Bone fragments & burned bone No. items: 15; Wt.: 0.33g Range: 1.5-9mm	XU2	10-20cm	4/29/88	8 burned frags., 0.13g 7 bone frags., 0.20g
196	Sample #5, Flotation residue Gravel/sand No. items: - ; Wt.: 126.1g Range: 1-36.3mm	XU2	10-20cm	4/29/88	Discarded
197	Sample #5, Flotation - lg. flot Tertiary flake, brown chalcodony No. items: 1; Wt.: Insignificant Range: 5.3mm	XU2	10-20cm	4/29/88	

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198	Sample #5, Flotation - lg. flot Seed (VII) No. items: 1; Wt.: Insignificant Range: Insignificant	XU2	10-20cm	4/29/88	
199	Sample #5, Flotation - lg. flot Charcoal fleck No. items: 1; Wt.: Insignificant Range: Insignificant	XU2	10-20cm	4/29/88	Some small gravels - discarded
200	Sample #5, Flotation - small flot Charcoal flecks No. items: 3; Wt.: Insignificant Range: Insignificant	XU2	10-20cm	4/29/88	
201	Sample #6, Flotation residue Debitage, brown chalcidony No. items: 38; Wt.: 2.86g Range: 2-22mm	XU2	20-30cm	4/29/88	29 tertiary flakes, 2.73g 7 flake frags., 0.1g 2 shatter, 0.03g Moderate patination
202	Sample #6, Flotation residue Retouched flake, KRF Slight bi-bevel unifacial retouch on lateral margins No. items: 1; Wt.: 1.7g Range: 27.3mm	XU2	20-30cm	4/29/88	Heavy patination
203	Sample #6, Flotation residue Tertiary flake and flake fragment, gray quartzite No. items: 2; Wt.: 0.05g Range: 3.5-6mm	XU2	20-30cm	4/29/88	1 tertiary flake, 0.03g 1 flake frag., 0.02g

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204	Sample #6, Flotation residue Bone fragments No. items: 150; Wt.: 4.53g Range: 1-14mm	XU2	20-30cm	4/29/88	42 burned frags., 1.1g 9 enamel frags., 0.33g 99 bone frags., 3.1g
205	Sample #6, Flotation residue Gravel/sand No. items: - ; Wt.: 46.52g Range: 1-27mm	XU2	20-30cm	4/29/88	Discarded
206	Sample #6, Flotation - 1g. flot Debitage, brown chalcedony No. items: 10; Wt.: 0.05g Range: 1-6.3mm	XU2	20-30cm	4/29/88	9 tertiary flakes, 0.03g 1 flake frag., 0.02g Slight patination
207	Sample #6, Flotation - 1g. flot Flake fragment, obsidian No. items: 1; Wt.: Insignificant Range: 2.2mm	XU2	20-30cm	4/29/88	
208	Sample #6, Flotation - 1g. flot Bone & enamel fragments No. items: 19; Wt.: 0.41g Range: 1.5-15mm	XU2	20-30cm	4/29/88	3 burned frags., 0.05g 3 enamel frags. 0.03g 13 bone frags., 0.33g
209	Sample #6, Flotation - 1g. flot Charcoal fragments No. items: 4; Wt.: Insignificant Range: 1.5-3mm	XU2	20-30cm	4/29/88	Some small gravels - discarded

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210	Sample # 6, Flotation - small flot XU2 Charcoal fragments No. items: 45; Wt.: Insignificant Range: ca. 1mm		20-30cm	4/29/88	
211	Sample #24, Flotation residue Gravel/sand - round No. items: - ; Wt.: 12.87g Range: 1-23mm	Cutbank	10-25cm	5/3/88	Discarded
212	Sample #24, Flotation residue Gravel/sand - angular No. items: - ; Wt.: 4.6g Range: 2-10mm	Cutbank	10-25cm	5/3/88	Discarded
213	Sample #24, Flotation residue Bone No. items: 2; Wt.: 0.05g Range: 1-6.25mm	Cutbank	10-25cm	5/3/88	
214	Sample #24, Flotation residue Burned earth? No. items: 1; Wt.: 0.01g Range: Incomplete	Cutbank	10-25cm	5/3/88	
215	Sample #24, Flotation residue Larger debitage, pink chert No. items: 21; Wt.: 21.86g Range: 7-36mm	Cutbank	10-25cm	5/3/88	4 tertiary flakes, 3.74g 9 flake frags., 8.01g 8 shatter, 10.11g

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216	Sample #24, Flotation residue Smaller debitage, pink chert No. items: 91; Wt.: 1.8g Range: 2-10.5mm	Cutbank	10-25cm	5/3/88	50 tertiary flakes, 0.87g 26 flake frags., 0.60g 15 shatter, 0.33g
217	Sample #24, Flotation residue Brown chalcedony No. items: 15; Wt.: 0.87g Range: 2-14mm	Cutbank	10-25cm	5/3/88	11 tertiary flakes, 0.17g 2 flake frags., 0.65g 2 shatter, 0.05g Some beetle remains and small gravel also Unpatinated to slight patination
218	Sample #24, Flotation - lg. flot Small debitage, pink chert No. items: 4; Wt.: 0.02g Range: 1-4mm	Cutbank	10-25cm	5/3/88	2 tertiary flakes, 0.01g 2 flake frags., 0.01g
219	Sample #24, Flotation - lg. flot Seed frag (II) No. items: 1; Wt.: Insignificant Range: Insignificant	Cutbank	10-25cm	5/3/88	
220	Sample #24, Flotation - lg. flot Charcoal fragment No. items: 1; Wt.: Insignificant Range: Insignificant	Cutbank	10-25cm	5/3/88	Some small gravels - discarded
221	Sample #24, Flotation - small flot Seed (crushed in lab) (I) No. items: 1; Wt.: Insignificant Range: Insignificant	Cutbank	10-25cm	5/3/88	

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222	Sample #24, Flotation - small flot Cutbank Charcoal fragments No. items: 2; Wt.: Insignificant Range: Insignificant	Cutbank	10-25cm	5/3/88	Some ant and beetle remains also
223	Sample #25, Flotation residue Fire-cracked rock No. items: 1; Wt.: 499.7g Range: 95.86mm	Cutbank	20-35cm	5/3/88	
224	Sample #25, Flotation residue Bone No. items: 28; Wt.: 1.44g Range: 1-23mm	Cutbank	20-35cm	5/3/88	1 burned frag., 0.01g 1 enamel frag., 0.03g 26 bone frags., 1.4g
225	Sample #25, Flotation residue Debitage, brown chalcodony No. items: 11; Wt.: 0.5g Range: 1-16.5mm	Cutbank	20-35cm	5/3/88	9 tertiary flakes, 0.45g 2 flake frags., 0.05g Slight patination
226	Sample #25, Flotation residue Tertiary flake, gray chert No. items: 1; Wt.: 0.03g Range: 5mm	Cutbank	20-35cm	5/3/88	
227	Sample #25, Flotation residue Fish scale No. items: 1; Wt.: Insignificant Range: 3mm	Cutbank	20-35cm	5/3/88	



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228	Sample #25, Flotation residue Gravel/sand No. items: - ; Wt.: 10.5g Range: 1-13.5mm	Cutbank	20-35cm	5/3/88	Some small gravels Discarded
229	Sample #25, Flotation - lg. flot Tertiary flake, brown chalcedony No. items: 1; Wt.: Insignificant Range: 6mm	Cutbank	20-35cm	5/3/88	Moderate patination
230	Sample #25, Flotation - lg. flot Flake frag?, gray chert No. items: 1; Wt.: Insignificant Range: 6.33mm	Cutbank	20-35cm	5/3/88	
231	Sample #25, Flotation - lg. flot Bone fragments No. items: 8; Wt.: 0.15g Range: 1.5-7mm	Cutbank	20-35cm	5/3/88	
232	Sample #25, Flotation - lg. flot Charcoal fragments No. items: 4; Wt.: Insignificant Range: 1-3mm	Cutbank	20-35cm	5/3/88	
233	Sample #25, Flotation - lg. flot Some small gravels No. items: - ; Wt.: 1.2g Range: 1-7.5mm	Cutbank	20-35cm	5/3/88	Discarded

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234	Sample #25, Flotation - small flots Seed fragments (II) No. items: 3; Wt.: Insignificant Range: Insignificant	small flots Cutbank	20-35cm	5/3/88	
235	Sample #25, Flotation - small flots Charcoal fragments No. items: 5; Wt.: Insignificant Range: 1mm	small flots Cutbank	20-35cm	5/3/88	
236	Tertiary flake, KRF No. items: 14; Wt.: 8.17g Range: 12.215-30.265mm	XU5 1/4" screen	0-10cm	5/3/88	Unpatinated to slight patination
237	Flake fragment, KRF No. items: 1; Wt.: 1.53g Range: 22.71mm	XU5 1/4" screen	0-10cm	5/3/88	Unpatinated
238	Shatter, KRF No. items: 3; Wt.: 2.72g Range: 8.13-25.58mm	XU5 1/4" screen	0-10cm	5/3/88	Unpatinated
239	Tertiary flake, porcelanite No. items: 1; Wt.: 0.18g Range: 15.62mm	XU5 1/4" screen	0-10cm	5/3/88	
240	Shatter?, gray chert No. items: 1; Wt.: 0.44g Range: 15.21mm	XU5 1/4" screen	0-10cm	5/3/88	

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241	Shatter, KRF No. items: 1; Wt.: 1.18g Range: 20.205mm	XU5 Point Plot 1	10-10.5cm	5/4/88	Unpatinated
242	Tertiary flake, KRF No. items: 10; Wt.: 0.70g Range: 2.875-19.46mm	XU5 1/8" screen	10-20cm	5/4/88	Unpatinated
243	Flake fragment, KRF No. items: 5; Wt.: 0.11g Range: 3.67-7.145mm	XU5 1/8" screen	10-20cm	5/4/88	Unpatinated
244	Retouched flake, KRF No. items: 3; Wt.: 2.34g Range: 11.27-23.255mm	XU5 1/4" screen	10-20cm	5/4/88	Unpatinated
245	Tertiary flake, KRF No. items: 36; Wt.: 12.52g Range: 6.67-25.29mm	XU5 1/4" screen	10-20cm	5/4/88	Unpatinated to slight patination
246	Flake fragment, KRF No. items: 11; Wt.: 3.34g Range: 7.54-19.85mm	XU5 1/4" screen	10-20cm	5/4/88	Unpatinated
247	Shatter, KRF No. items: 7; Wt.: 5.1g Range: 8.51-21.235mm	XU5 1/4" screen	10-20cm	5/4/88	Unpatinated
248	Flake fragment, porcelanite No. items: 1; Wt.: 0.16g Range: 12.115mm	XU5 1/4" screen	10-20cm	5/4/88	

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249	Flake fragment?, gray chert No. items: 1; Wt.: 1.21g Range: 25.895mm	XU5 1/4" screen	10-20cm	5/4/88	
250	Bone fragment No. items: 6; Wt.: 1.40g Range: 5.115-20.985mm	XU5 1/4" screen	10-20cm	5/4/88	
251	Tertiary flake, KRF No. items: 3; Wt.: 0.15g Range: 3.095-9.985mm	XU5 1/8" screen	20-30cm	5/4/88	Unpatinated
252	Flake fragment, KRF No. items: 1; Wt.: 0.04g Range: 8.26mm	XU5 1/8" screen	20-30cm	5/4/88	Unpatinated
253	Flake fragment, goldish-brown chert No. items: 1; Wt.: 0.52g Range: 16.085mm	XU5 1/8" screen	20-30cm	5/4/88	
254	Water-polished flake, gray chert No. items: 1; Wt.: 0.14g Range: 8.285mm	XU5 1/8" screen	20-30cm	5/4/88	Discarded
255	Tertiary flake, KRF No. items: 3; Wt.: 0.76g Range: 8.26-15.66mm	XU5 1/4" screen	20-30cm	5/4/88	Unpatinated
256	Flake fragment, KRF No. items: 3; Wt.: 0.60g Range: 5.67-14.98mm	XU5 1/4" screen	20-30cm	5/4/88	Unpatinated

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257	Tertiary flake, KRF No. items: 1; Wt.: 1.68g Range: 22.24mm	XU5 1/8" screen	30-40cm	5/4/88	Unpatinated
258	Sample #19, Pollen sample No. items: 1; Wt.: - Range: -	XU5 48-50cm E of NW corner	5-10cm	5/4/88	
259	Sample #20, Pollen sample No. items: 1; Wt.: - Range: -	XU5 48-50cm E of NW corner	15-20cm	5/4/88	
260	Sample #18, Flotation residue Debitage, brown chalcedony No. items: 15; Wt.: 0.64g Range: 2-17.2mm	XU5	10-20cm	5/4/88	9 tertiary flakes, 0.47g 4 flake frags., 0.14g 2 shatter, 0.03g Unpatinated
261	Sample #18, Flotation residue Burned bone No. items: 4; Wt.: 0.06g Range: 2-5mm	XU5	10-20cm	5/4/88	
262	Sample #18, Flotation residue Gravel/sand/concretions No. items: -; Wt.: 22.07g Range: 0.5-12.2mm	XU5	10-20cm	5/4/88	Discarded
263	Sample #18, Flotation - 1g. flot Debitage, KRF No. items: 3; Wt.: 0.06g Range: 2.8-6mm	XU5	10-20cm	5/4/88	1 tertiary flake, 0.02g 2 shatter, 0.04g Unpatinated

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264	Sample #18, Flotation - lg. flot Seeds (II-4; IV-14.5; other?) No. items: ca. 19.5; Wt.: 0.03g Range: 0.8-3.9mm	XU5	10-20cm	5/4/88	Some small gravels - discarded Carbonized grass- hopper feces?
265	Sample #18, Flotation - small flot XU5 Carbonized gastropod(s) (1-2?); 2 pieces wood charcoal No. items: 6; Wt.: Insignificant Range: 0.5-2mm	XU5	10-20cm	5/4/88	3 carbonized unknowns (interior of seeds?)
266	Sample #18, Flotation - small flot XU5 Seeds (II-ca. 9; IV-ca. 4; IX-2) No. items: ca. 15; Wt.: Insignificant Range: 0.5-3mm	XU5	10-20cm	5/4/88	
267	Tertiary flake, KRF No. items: 7; Wt.: 1.66g Range: 3.66-22.415mm	XU6 1/8" screen	0-10cm	5/4/88	Unpatinated
268	Flake fragment, KRF No. items: 2; Wt.: 0.12g Range: 4.47-18.155mm	XU6 1/8" screen	0-10cm	5/4/88	Unpatinated
269	Tertiary flake, porcelanite No. items: 2; Wt.: 0.13g Range: 4.875-10.56mm	XU6 1/8" screen	0-10cm	5/4/88	
270	Core, KRF No. items: 1; Wt.: 4.15g Range: 49.305mm	XU6 1/4" screen	0-10cm	5/4/88	Unpatinated

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271	Primary flake, KRF No. items: 6; Wt.: 20.82g Range: 7.88-39.64mm	XU6 1/4" screen	0-10cm	5/4/88	Unpatinated
272	Secondary flake, KRF No. items: 4; Wt.: 3.96g Range: 8.345-28.555mm	XU6 1/4" screen	0-10cm	5/4/88	Unpatinated
273	Tertiary flake, KRF No. items: 25; Wt.: 10.57g Range: 7.145-30.03mm	XU6 1/4" screen	0-10cm	5/4/88	Unpatinated
274	Flake fragment, KRF No. items: 4; Wt.: 0.57g Range: 7.98-13.435mm	XU6 1/4" screen	0-10cm	5/4/88	Unpatinated
275	Shatter, KRF No. items: 4; Wt.: 4.26g Range: 9.32-27.195mm	XU6 1/4" screen	0-10cm	5/4/88	Unpatinated
276	Tertiary flake, porcelanite? No. items: 1; Wt.: 0.16g Range: 14.075mm	XU6 1/4" screen	0-10cm	5/4/88	
277	Biface fragment, porcelanite (possible projectile point - distal tip) No. items: 1; Wt.: 0.31g Range: 13.90mm	XU6 1/4" screen	0-10cm	5/4/88	

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278	Transverse scraper, light olive brown chert - 2.5Y 5/4 No. items: 1; Wt.: 1.83g Type D	XU6 1/4" screen	0-10cm	5/4/88	Total Length: 20.815mm Maximum width: 16.88mm Maximum thickness: 4.96mm Transverse cord: 15.375mm Distal transverse width: 2.335mm
279	Tertiary flake, KRF No. items: 2; Wt.: 0.03g Range: 3.225-8.065mm	XU6 1/8" screen	10-20cm	5/4/88	Unpatinated
280	Tertiary flake, porcelanite No. items: 1; Wt.: 0.07g Range: 8.925mm	XU6 1/8" screen	10-20cm	5/4/88	
281	Enamel fragment No. items: 1; Wt.: 0.05g Range: 7.825mm	XU6 1/8" screen	10-20cm	5/4/88	
282	Transverse scraper, KRF dark reddish-brown - 5YR 2.5/2, produced on a primary flake No. items: 1; Wt.: 3.52g Type D	XU6 1/4" screen	10-20cm	5/4/88	Total Length: 30.325mm Maximum width: 16.32mm Maximum thickness: 7.03mm Transverse cord: 15.785mm Distal transverse width: 1.885mm
283	Retouched flake, KRF No. items: 1; Wt.: 0.44g Range: 16.43mm	XU6 1/4" screen	10-20cm	5/4/88	Unpatinated
284	Secondary flake?, KRF No. items: 2; Wt.: 2.41g Range: 9.92-27.485mm	XU6 1/4" screen	10-20cm	5/4/88	Unpatinated



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285	Tertiary flake, KRF No. items: 13; Wt.: 2.73g Range: 6.40-22.235mm	XU6 1/4" screen	10-20cm	5/4/88	Unpatinated
286	Flake fragment, KRF No. items: 2; Wt.: 0.90g Range: 7.76-22.555mm	XU6 1/4" screen	10-20cm	5/4/88	Unpatinated
287	Shatter, KRF No. items: 1; Wt.: 0.20g Range: 9.105mm	XU6 1/4" screen	10-20cm	5/4/88	Unpatinated
288	Shatter?, gray chert No. items: 1; Wt.: 0.36g Range: 13.715mm	XU6 1/4" screen	10-20cm	5/4/88	
289	Tertiary flake, KRF No. items: 2; Wt.: 0.53g Range: 8.945-14.705mm	XU6 1/4" screen	20-30cm	5/4/88	Slight patination
290	Sample #22, Pollen sample No. items: 1; Wt.: - Range: -	XU6	5-10cm	5/4/88	
291	Sample #23, Pollen sample No. items: 1; Wt.: - Range: -	XU6	15-20cm	5/4/88	
292	NE corner Flotation residue Sample #21 Debitage, brown chalcedony No. items: 3; Wt.: 0.02g Range: 2.2-5mm	XU6	10-20cm	5/4/88	2 tertiary flakes, 0.01g Unpatinated 1 shatter, 0.01g Unpatinated

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293	NE corner Flotation residue Sample #21 Flake fragment, gray chert No. items: 1; Wt.: 0.02g Range: 3.5mm	XU6	10-20cm	5/4/88	
294	NE corner Flotation residue Sample #21, Bone fragments No. items: 2; Wt.: 0.01g Range: 2-3.5mm	XU6	10-20cm	5/4/88	
295	NE corner Flotation residue Sample #21 Gravel/sand/concretions No. items: - ; Wt.: 3.65g Range: 1-9.2mm	XU6	10-20cm	5/4/88	Discarded
296	NE corner Flotation - lg. flot Sample #21 Seeds or seed fragments (II) No. items: 78; Wt.: Insignificant Range: 0.5-1mm	XU6	10-20cm	5/4/88	
297	NE corner Flotation - lg. flot Sample #21, Seed (V) No. items: 1; Wt.: Insignificant Range: 0.5mm	XU6	10-20cm	5/4/88	
298	NE corner Flotation - small flot Sample #21, Seeds (II) No. items: 388+; Wt.: Insignificant Range: 0.5-1mm	XU6	10-20cm	5/4/88	

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299	NE corner Flotation - small flot Sample #21 Charcoal fragment No. items: 1; Wt.: Insignificant Range: 2mm	XU6	10-20cm	5/4/88	

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300	Tertiary flake (utilized?), KRF No. items: 1; Wt.: 0.67g Range: 15.8mm	Point Plot 19		5/1/88	Slight patination
301	Utilized flake?, KRF No. items: 4; Wt.: 8.29g Range: 14.85-34.095mm	Point Plot 20		5/1/88	Moderate to heavy patination
302	Tertiary flake, KRF No. items: 6; Wt.: 1.3g Range: 5.61-16.195mm	Point Plot 20		5/1/88	Slight to heavy patination
303	Flake fragments, KRF No. items: 5; Wt.: 2.76g Range: 9.25-28.58mm	Point Plot 20		5/1/88	Slight to heavy patination
304	Shatter, KRF No. items: 3; Wt.: 3.56g Range: 12.37-25.63mm	Point Plot 20		5/1/88	Slight to moderate patination
305	Tertiary flake, gray-white chert No. items: 1; Wt.: 2.64g Range: 24.24mm	Point Plot 20		5/1/88	
306	Tertiary flake, gray chert No. items: 2; Wt.: 4.67g Range: 22.55-34.47mm	Point Plot 20		5/1/88	
307	Tertiary flake, pink-gray chert No. items: 1; Wt.: 0.27g Range: 11.21mm	Point Plot 20		5/1/88	

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308	Core, gray chert No. items: 1; Wt.: 51.34g Range: 53.09mm	Point Plot 20		5/1/88	
309	Shatter, gray-brown chert No. items: 2; Wt.: 3.44g Range: 13.89-20.925mm	Point Plot 20		5/1/88	
310	Bone fragments (4) & enamel fragment No. items: 5; Wt.: 5.04g Range: 4.075-35.69mm	Point Plot 20		5/1/88	4 bone frags., 4.68g 1 enamel frag., 0.36g
311	Tertiary flake, KRF No. items: 1; Wt.: 0.50g Range: 18.625mm	Auger Test 50W, 250N	30-40cm	4/30/88	Slight to moderate patination
312	Retouched flake, porcelanite No. items: 1; Wt.: 4.33g Range: 32.4mm	Auger Test 50W, 375N	0-10cm	4/30/88	
313	Shatter, porcelanite No. items: 2; Wt.: 0.04g Range: 3.18-7.475mm	Auger Test 50W, 375N	0-10cm	4/30/88	
314	Tertiary flake, porcelanite No. items: 1; Wt.: 0.03g Range: 6.405mm	Auger Test 50W, 375N	0-10cm	4/30/88	
315	Tertiary flake, porcelanite No. items: 2; Wt.: 0.06g Range: 3.63-6.64mm	Auger Test 50W, 375N	0-10cm	4/30/88	

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316	Tertiary flake, KRF No. items: 1; Wt.: 0.28g Range: 10.055mm	Auger Test 75W, 300N	0-10cm	4/30/88	Slight patination
317	Flake fragment, KRF No. items: 1; Wt.: 0.03g Range: 5.975mm	Auger Test 75W, 300N	0-10cm	4/30/88	Unpatinated
318	Tertiary flake, KRF No. items: 3; Wt.: 0.25g Range: 4.72-10.895mm	Auger Test 100W, 300N	20-30cm	4/30/88	Slight patination
319	Tertiary flake, KRF No. items: 1; Wt.: 0.02g Range: 6.72mm	Auger Test 100W, 300N	30-40cm	4/30/88	Slight patination
320	Flake fragment, KRF No. items: 1; Wt.: 0.02g Range: 6.33mm	Auger Test 100W, 300N	30-40cm	4/30/88	Slight to moderate patination
321	Tertiary flake, KRF No. items: 1; Wt.: 0.04g Range: 7.855mm	Auger Test 25E, 225N	20-30cm	4/30/88	Moderate patination
322	Secondary flake fragment, KRF No. items: 2; Wt.: 0.33g Range: 4.755-11.155mm	Auger Test 50E, 200N	0-10cm	4/30/88	Unpatinated
323	Tertiary flake, KRF No. items: 1; Wt.: 0.15g Range: 11.24mm	Auger Test 50E, 200N	10-20cm	4/30/88	Moderate patination

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CATALOG NO	DESCRIPTION	LOCATION	DEPTH	DATE	COMMENTS
324	Shatter, KRF No. items: 1; Wt.: 0.04g Range: 8.17mm	Auger Test 50E, 250N	10-15cm	4/30/88	Slight patination
325	Tertiary flake, KRF No. items: 1; Wt.: 0.20g Range: 10.9mm	Auger Test 75E, 175N	0-10cm	4/30/88	Slight to moderate patination
326	Flake fragment, KRF No. items: 2; Wt.: 0.13g Range: 4.6-9.65mm	Auger Test 75E, 175N	0-10cm	4/30/88	Slight to moderate patination
327	Tertiary flake, KRF No. items: 3; Wt.: 0.18g Range: 3.32-6.98mm	Auger Test 75E, 200N	0-10cm	4/30/88	Slight patination
328	Shatter, white chert No. items: 1; Wt.: 0.01g Range: 4.165mm	Auger Test 75E, 200N	0-10cm	4/30/88	
329	Tertiary flake, KRF No. items: 1; Wt.: 0.05g Range: 11.145mm	Auger Test 75E, 225N	0-10cm	4/30/88	
330	Tertiary flake, white chert No. items: 1; Wt.: 0.03g Range: 3.75mm	Auger Test 75E, 225N	0-10cm	4/30/88	
331	Flake fragment, KRF No. items: 1; Wt.: 0.02g Range: 4.425mm	Auger Test 75E, 225N	0-10cm	4/30/88	Slight patination

Archeology Laboratory of the  
Center for Western Studies

FIELD CATALOG SHEET

County: Mountrail  
Site No: 32MN228  
Accession No:

CATALOG NO	DESCRIPTION	LOCATION	DEPTH	DATE	COMMENTS
332	Tertiary flake, KRF No. items: 1; Wt.: 0.21g Range: 12.795mm	XU3 1/8" screen	0-10cm	5/1/88	Unpatinated
333	Fire-cracked rock?, granite No. items: 1; Wt.: 22.73g Range: 38.65mm	XU3 1/8" screen	0-10cm	5/1/88	
334	Retouched flake, KRF No. items: 1; Wt.: 1.12g Range: 22.855mm	XU3 1/4" screen	0-10cm	5/1/88	Unpatinated
335	Secondary flake, KRF No. items: 1; Wt.: 0.60g Range: 15.24mm	XU3 1/4" screen	0-10cm	5/1/88	Unpatinated
336	Tertiary flake, KRF No. items: 5; Wt.: 0.71g Range: 7.24-10.655mm	XU3 1/4" screen	0-10cm	5/1/88	Unpatinated
337	Flake fragment, KRF No. items: 1; Wt.: 0.56g Range: 12.33mm	XU3 1/4" screen	0-10cm	5/1/88	Unpatinated
338	Shatter, KRF No. items: 1; Wt.: 0.74g Range: 15.89mm	XU3 1/4" screen	0-10cm	5/1/88	Unpatinated
339	Tertiary flake?, porcelanite? No. items: 1; Wt.: 0.13g Range: 10.65mm	XU3 1/4" screen	0-10cm	5/1/88	



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Center for Western Studies

FIELD CATALOG SHEET

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Accession No:

CATALOG NO	DESCRIPTION	LOCATION	DEPTH	DATE	COMMENTS
340	Fire-cracked rock?, granite No. items: 1; Wt.: 26.83g Range: 40.79mm	XU3 1/4" screen	0-10cm	5/1/88	
341	Yellow ochre? No. items: 1; Wt.: 0.28g Range: 10.865mm	XU3 1/4" screen	0-10cm	5/1/88	
342	Tertiary flake, KRF No. items: 6; Wt.: 0.50g Range: 3.205-10.435mm	XU3 1/8" screen	10-20cm	5/1/88	Moderate to heavy patination
343	Bone fragments No. items: 4; Wt.: 0.11g Range: 2.83-5.145mm	XU3 1/8" screen	10-20cm	5/1/88	
344	Stone fragment, chalk? No. items: 1; Wt.: 0.10g Range: ca. 5.96mm	XU3 1/8" screen	10-20cm	5/1/88	Discarded
345	Retouched flake?, KRF No. items: 2; Wt.: 2.75g Range: 13.45-19.42mm	XU3 1/4" screen	10-20cm	5/1/88	Slight patination
346	Tertiary flake, KRF No. items: 11; Wt.: 6.95g Range: 8.475-19.345mm	XU3 1/4" screen	10-20cm	5/1/88	Slight to heavy patination
347	Flake fragment, KRF No. items: 2; Wt.: 0.43g Range: 7.735-12.215mm	XU3 1/4" screen	10-20cm	5/1/88	Moderate patination

# FIELD CATALOG SHEET

Archeology Laboratory of the  
Center for Western Studies

County: Mountrail  
Site No: 32MN228  
Accession No:

CATALOG NO	DESCRIPTION	LOCATION	DEPTH	DATE	COMMENTS
348	Shatter, KRF? No. items: 1; Wt.: 1.92g Range: 19.205mm	XU3 1/4" screen	10-20cm	5/1/88	
349	Shatter, gray chert No. items: 1; Wt.: 0.54g Range: 11.74mm	XU3 1/4" screen	10-20cm	5/1/88	
350	Wood, or bone, mineralized No. items: 7; Wt.: 5.55g Range: 7.04-20.46mm	XU3 1/4" screen	10-20cm	5/1/88	
351	Tertiary flake, brown chalcedony? No. items: 2; Wt.: 1.33g Range: 6.385-17.58mm	XU3 1/8" screen	20-30cm	5/1/88	
352	Wood, or bone, mineralized No. items: 2; Wt.: 0.20g Range: 3.75-11.96mm	XU3 1/8" screen	20-30cm	5/1/88	
353	Tertiary flake, KRF No. items: 1; Wt.: 1.96g Range: 24.035mm	XU3 Point Plot 1	20-21.5cm	5/1/88	Moderate patination
354	Tertiary flake, KRF and/or mineralized wood No. items: 24; Wt.: 8.88g Range: 7-22.455mm	XU3 1/4" screen	20-30cm	5/1/88	Moderate to heavy patination

Archeology Laboratory of the  
Center for Western Studies

FIELD CATALOG SHEET

County: Mountrail  
Site No: 32MN228  
Accession No:

CATALOG NO	DESCRIPTION	LOCATION	DEPTH	DATE	COMMENTS
355	Flake fragment, KRF and/or mineralized wood No. items: 5; Wt.: 0.76g Range: 7.15-12.82mm	XU3 1/4" screen	20-30cm	5/1/88	Moderate to heavy patination
356	Shatter, KRF and/or mineralized wood No. items: 2; Wt.: 0.46g Range: 7.61-12.41mm	XU3 1/4" screen	20-30cm	5/1/88	
357	Shatter?, gray chert No. items: 1; Wt.: 0.50g Range: 13.96mm	XU3 1/4" screen	20-30cm	5/1/88	
358	Tertiary flake?, basalt-like No. items: 1; Wt.: 0.46g Range: 17.18mm	XU3 1/4" screen	20-30cm	5/1/88	
359	Concretion fragment No. items: 1; Wt.: 0.13g Range: 8.535mm	XU3 1/4" screen	20-30cm	5/1/88	Discarded
360	Wood or bone, mineralized No. items: 3; Wt.: 1.01g Range: 7.71-14.635mm	XU3 1/4" screen	20-30cm	5/1/88	
361	Bone, partially mineralized No. items: 2; Wt.: 1.93g Range: 6.91-27mm	XU3 1/4" screen	20-30cm	5/1/88	

Archeology Laboratory of the  
Center for Western Studies

FIELD CATALOG SHEET

County: Mountrail  
Site No: 32MN228  
Accession No:

CATALOG NO	DESCRIPTION	LOCATION	DEPTH	DATE	COMMENTS
362	Fire-cracked rock, granite-like No. items: 1; Wt.: 72.77g Range: 55.225mm	XU3 1/4" screen	20-30cm	5/1/88	
363	Sample #13, Pollen sample No. items: 1; Wt.: -	XU3 Wall profile	5-10cm (west)	5/1/88	
364	NW corner Flotation residue Sample #12, Debitage, brown chalcedony No. items: 8; Wt.: 0.12g Range: 2.2-10mm	XU3	10-20cm	5/1/88	6 tertiary flakes, 0.1g 1 flake frag., 0.01g 1 shatter, 0.01g Unpatinated to slight patination
365	NW corner Flotation residue Sample #12, Debitage, gray chert No. items: 2; Wt.: 0.02g Range: 2-4.5mm	XU3	10-20cm	5/1/88	1 flake frag., 0.01g 1 shatter, 0.01g
366	NW corner Flotation residue Sample #12 Gravel/sand/concretions No. items: - ; Wt.: 151.44g Range: 1-38.5mm	XU3	10-20cm	5/1/88	Discarded
367	NW corner Flotation residue Sample #12, Burned bone fragments No. items: 18; Wt.: 0.75g Range: 1-14.3mm	XU3	10-20cm	5/1/88	
368	NW corner Flotation - lg. flot Sample #12, Seed (III) No. items: 1; Wt.: Insignificant Range: 1.75mm	XU3	10-20cm	5/1/88	

Archeology Laboratory of the  
Center for Western Studies

FIELD CATALOG SHEET

County: Mountrail  
Site No: 32MN228  
Accession No:

CATALOG NO	DESCRIPTION	LOCATION	DEPTH	DATE	COMMENTS
369	NW corner Flotation - lg. flot Sample #12 Debitage, brown chalcedony No. items: 2; Wt.: 0.03g Range: 2-5mm	XU3	10-20cm	5/1/88	1 tertiary flake, 0.01g
370	NW corner Flotation - small flot Sample #12, Seeds (II & III) No. items: 2; Wt.: Insignificant Range: 1-1.5mm	XU3	10-20cm	5/1/88	1 shatter, 0.02g Some small gravels - discarded
371	NW corner Flotation - small flot Sample #12, Seed pods (VI) No. items: 1; Wt.: Insignificant Range: 2.5mm	XU3	10-20cm	5/1/88	
372	Tertiary flake, KRF No. items: 2; Wt.: 0.80g Range: 9.985-13.78mm	XU4 1/4" screen	0-10cm	5/3/88	Unpatinated to moderate patination
373	Shatter, KRF No. items: 1; Wt.: 0.55g Range: 13.11mm	XU4 1/4" screen	0-10cm	5/3/88	Slight patination
374	Tertiary flake, KRF No. items: 2; Wt.: 0.06g Range: 4.47-7.65mm	XU4 1/8" screen	10-20cm	5/3/88	Slight patination
375	Tertiary flake, KRF No. items: 3; Wt.: 0.62g Range: 7.325-13.245mm	XU4 1/4" screen	10-20cm	5/3/88	Unpatinated to slight patination

FIELD CATALOG SHEET

Archeology Laboratory of the  
Center for Western Studies

County: Mountrail  
Site No: 32MN228  
Accession No:

CATALOG NO	DESCRIPTION	LOCATION	DEPTH DATE	COMMENTS
376	Flake fragment, KRF No. items: 5; Wt.: 3.56g Range: 7.10-31.21mm	XU4 1/4" screen	10-20cm 5/3/88	Unpatinated to slight patination
377	Shatter, KRF No. items: 2; Wt.: 1.03g Range: 9.785-15.355mm	XU4 1/4" screen	10-20cm 5/3/88	Unpatinated to slight patination
378	Tertiary flake, brown quartzite No. items: 2; Wt.: 3.20g Range: 8.355-29.56mm	XU4 1/4" screen	10-20cm 5/3/88	
379	Shatter, chalcedony No. items: 1; Wt.: 0.54g Range: 10.065mm	XU4 1/4" screen	10-20cm 5/3/88	
380	Bipolar core fragment, goldish-brown chert No. items: 1; Wt.: 1.78g Range: 20.98mm	XU4 1/4" screen	10-20cm 5/3/88	
381	Wood, mineralized No. items: 2; Wt.: 1.45g Range: 4.32-21.42mm	XU4 1/4" screen	10-20cm 5/3/88	
382	Tertiary flake, KRF No. items: 2; Wt.: 0.31g Range: 5.70-14.445mm	XU4 1/8" screen	20-30cm 5/3/88	Slight patination
383	Tertiary flake, KRF No. items: 6; Wt.: 2.15g Range: 7.5-17.395mm	XU4 1/4" screen	20-30cm 5/3/88	Unpatinated to moderate patination

Archeology Laboratory of the  
Center for Western Studies

FIELD CATALOG SHEET

County: Mountrail  
Site No: 32MN228  
Accession No:

CATALOG NO	DESCRIPTION	LOCATION	DEPTH	DATE	COMMENTS
384	Flake fragment, KRF No. items: 1; Wt.: 0.34g Range: 11.985mm	XU4 1/4" screen	20-30cm	5/3/88	Moderate patination
385	Tertiary flake, porcelainite No. items: 1; Wt.: 0.31g Range: 13.06mm	XU4 1/4" screen	20-30cm	5/3/88	
386	Fossiliferous rock - apparently naturally fracturing No. items: 6; Wt.: 56.96g Range: 11.315-53.71mm	XU4 1/4" screen	20-30cm	5/3/88	
387	Sample #16, Pollen sample No. items: 1; Wt.: - Range: -	XU4 10-14cm south of NW corner	5-10cm	5/3/88	
388	Sample #17, Pollen sample No. items: 1; Wt.: - Range: -	XU4 10-14cm south of NW corner	15-20cm	5/3/88	
389	NW corner Flotation residue Sample #15 Debitage, brown chalcidony No. items: 5; Wt.: 0.11g Range: 3-8.2mm	XU4	10-20cm	5/3/88	4 tertiary flakes, 0.05g Unpatinated 1 shatter, 0.06g Unpatinated
390	NW corner Flotation residue Sample #15 Bone and burned bone No. items: 17; Wt.: 0.74g Range: 1-15mm	XU4	10-20cm	5/3/88	4 bone frags., 0.41g 13 burned frags., 0.33g

Archeology Laboratory of the  
Center for Western Studies

FIELD CATALOG SHEET

County: Mountrail  
Site No: 32MN228  
Accession No:

CATALOG NO	DESCRIPTION	LOCATION	DEPTH	DATE	COMMENTS
391	NW corner Flotation residue Sample #15 Gravel/sand/mudstone/concretions No. items: - ; Wt.: 442.16g Range: 0.2-52.1mm	XU4	10-20cm	5/3/88	Discarded
392	NW corner Flotation - lg. flot Sample #15 Seeds (II) No. items: 5; Wt.: Insignificant Range: 0.8mm	XU4	10-20cm	5/3/88	Some small gravels - discarded
393	NW corner Flotation - small flot Sample #15 Seeds (I-I; II-ca. 58; III-3) No. items: 61; Wt.: Insignificant Range: 0.8-2.3mm	XU4	10-20cm	5/3/88	
394	NW corner Flotation - small flot Sample #15 Charcoal No. items: 1; Wt.: Insignificant Range: 2mm	XU4	10-20cm	5/3/88	



APPENDIX G

UPDATED SITE FORMS - 32MN228, 32MN331

SITS # 3,2 M,N 2,2,8  
State County Site NumberField Code \_\_\_\_\_ Site Name W.H.I.T.E. E.A.R.T.H. C.O.T.T.A.G.E.  
Field Code \_\_\_\_\_ Site Name \_\_\_\_\_Map Quad R,A,T. L,A,K.E. \_\_\_\_\_Map Quad R,A,T. L,A,K.E. S.W. \_\_\_\_\_

LTL	Twp	<u>1,5,4</u>	R	<u>0,9,4</u>	Sec	<u>2,6</u>	QQQ	<u>6</u>	QQ	<u>7</u>	Q	<u>6</u>
LTL	Twp	<u>1,5,4</u>	R	<u>0,9,4</u>	Sec	<u>2,6</u>	QQQ	<u>6</u>	QQ	<u>6</u>	Q	<u>7</u>
LTL	Twp	<u>1,5,4</u>	R	<u>0,9,4</u>	Sec	<u>3,5</u>	QQQ	<u>5</u>	QQ	<u>5</u>	Q	<u>8</u>
LTL	Twp	_____	R	_____	Sec	_____	QQQ	_____	QQ	_____	Q	_____
LTL	Twp	_____	R	_____	Sec	_____	QQQ	_____	QQ	_____	Q	_____
LTL	Twp	_____	R	_____	Sec	_____	QQQ	_____	QQ	_____	Q	_____

1. N  
2. E  
3. S  
4. W  
5. NE  
6. SE  
7. SW  
8. NW  
9. C

I. SITE I.D.

II. SITE DESCRIPTION

FEATURE TYPE  
☐ Conical Timber Lodge  
☐ CM Scatter  
☐ Earthlodge Village  
☐ Earthworks  
☐ Fortification  
☐ Grave  
☐ Hearth  
☐ Jump  
☐ Mound  
☐ Other Rock Features  
☐ Pit  
☐ Quarry/Mine  
☐ Rock Art  
☐ Rock Shelter  
☐ Stone Circle  
☐ Trail  
☐ Miscellaneous  
☐ Isolated Find

CULTURAL MATERIAL  
☐ Bone  
☐ Ceramics  
☒ Charcoal  
☐ Copper  
☒ Faunal Remains  
☒ Fire Cracked Rock  
☒ Floral Remains  
☐ Fossil  
☐ Hide, Hair, Fur  
☐ Human Remains  
☐ Projectile Point  
☐ Shell  
☒ Stone, Chipped  
☐ Stone, Ground  
☐ Trade Good  
☐ Wood  
☒ Other

1,0,8,0,0,0 m. x m. Site Area  
3,0 Cultural Depth cm.  
3 Depth Indicator

CULTURAL/TEMPORAL  
AFFILIATION  
=====

☐ Paleo  
☐ Archaic  
☒ Late Prehistoric  
☐ Historic  
☐ Period Unknown

☐ CM Density ☒ Basis for Dating

III. ENVIRONMENT

☐ Landform 1 ☐ Landform 2 ☐ Slope/Exposure ☐ Ecosystem  
☐ Landform 1 ☐ Landform 2 ☐ Slope/Exposure ☐ Ecosystem

Elevation \_\_\_\_\_ m. \_\_\_\_\_  
Drainage System \_\_\_\_\_  
View, Degree \_\_\_\_\_ View, Distance \_\_\_\_\_

Dist Perm Water \_\_\_\_\_ m. Perm Water Type \_\_\_\_\_  
Dist Seas Water \_\_\_\_\_ m. Seas Water Type \_\_\_\_\_

IV. C.R.M.

☐ Ownership ☐ Ownership

0,4,2,8,8,8 Fieldwork Date 0,5,0,4,8,8 Fieldwork Date

3 Site Condition 2 Collection 1 Test/Probe 1 Excavation

Additional Information 1 Management Recommendation

Y.E.L.L.O.W. O.C.H.R.E. \_\_\_\_\_

SHSND USE

\_\_\_\_\_ Soil Association \_\_\_\_\_ Ecozone \_\_\_\_\_ Area Signf \_\_\_\_\_ MS Number

\_\_\_\_\_ Soil Association \_\_\_\_\_ Ecozone \_\_\_\_\_ Area Signf \_\_\_\_\_ MS Number

☐ CR Type ☐ Verified Site ☐ Non-Site ☐ E C F ☐ T F

☐ State Registry ☐ National Register

Coder Peter WinhamDate Coded 7-11-88

FIELD MANUAL  
NDCRS ARCHEOLOGICAL SITE FORM

FEATURE TYPE		CULTURAL MATERIAL		DEPTH INDICATOR		PALEO	
0. or blank Absent	0 or blank. Absent	0. Not applicable	4. Guess	0. No			
1. Present	1. Present	1. Auger	5. Shovel	1. Yes-unspecified			
2. Probable	2. Probable	2. Cutbank or erosional feature	6. Soil Probe	2. Pre-Clovis			
<u>ARCHAIC</u>		3. Excavation	7. Other	3. Clovis			
0. No				4. Folsum			
1. Yes-unspecified				5. Plano			
2. Early Large Side-Notched				6. Post-Plano			
3. McKean/Duncan/Hanna				7. Goshen			
4. Oxbow							
5. Pelican Lake							
6. Besant							
7. Pre-ceramic							
8. Early Woodland							
9. Middle Woodland							
<u>BASIS FOR DATING</u>							
0. Unknown							
1. Date Unknown							
2. Radiocarbon							
3. Typology							
4. Dendrochronology							
5. Thermoluminescence							
<u>LANDFORM 1</u>		<u>LANDFORM 2</u>		<u>SLOPE/EXPOSURE</u>		<u>VIEW, DEGREE</u>	
0. Unknown	0. Unknown	10. Ridge	0. Unknown	0. Unknown			
1. Top of	1. Beachline (glacial)	11. Saddle	1. North	1. 90°			
2. Bottom of	2. Beach or riverbank	12. Sandbar	2. Northeast	2. 180°			
3. Side of	3. Canyon	13. Spur	3. East	3. 270°			
4.	4. Island	14. Swale	4. Southeast	4. 360°			
5. Top and Bottom of	5. Delta	15. Terrace	5. South	5. No View			
6. Top and Side of	6. Draw	16. A. Fan	6. Southwest				
7. Bottom and Side of	7. Upland plain	17. Butte	7. West				
8. Top, Bottom, & Side	8. Floodplain	18. F. Slope	8. Northwest				
<u>VIEW, DISTANCE</u>	9. Hill-Knoll-Bluff	19. Other	9. Closed				
0. Unknown		20. Dune	10. Open				
1. Excellent (5-7miles)							
2. Good (2-5 miles)							
3. Fair (1-2 miles)							
4. Poor (less than 1 mile)							
5. No View							
<u>OWNERSHIP</u>		<u>PERM &amp; SEAS WATER TYPE</u>		<u>ECOSYSTEM</u>			
0. Unknown	0. Unknown	0. Unknown	7. Rolling Grassland	15. Choppy Sandhills			
1. State	1. Lake	1. Bottomland	8. Hardwood Draw	16. Savanna			
2. Federal	2. Spring	2. Terraces	9. Marsh	17. Mixed Grass Prairie-Dry			
3. Private	3. Moving Water (Stream)	3. Toe Slope	10. Ponderosa Pine	18. Mixed Grass Prairie-Wet			
4. Local Government	4. Intermittent Stream	4. Scoria	11. Hilly Scoria	19. River Terrace and Bottom Lands			
5. Reservation	5. Intermittent Pond	5. Badlands	12. Upland Breaks				
<u>MANAGEMENT RECOMM.</u>	6. Marsh	6. Upland Grassland	13. River Breaks				
0. Unknown			14. Rockland				
1. No Further Work							
2. Further Work							
3. Impact Analysis							
4. Both 2 & 3							
5. Avoidance-Mitigation							
6. Exclusion-Preservation							
<u>AREA SIGNF.</u>		<u>CR TYPE</u>		<u>NATIONAL &amp; STATE REGISTER</u>		<u>E C F AND T F</u>	
1. Archeological	0. Unknown	0. Undetermined	1. Exclusion Area				
2. Architectural	1. Site	1. Listed	2. Avoidance Area				
3. Historical	2. Building	2. Nominated	3. Area of Concern				
4. Paleontological	3. Structure	3. Eligible					
	4. Object	4. Not Eligible					
	5. District	5. Determined Eligible					
		6. Eligible as Part of a District					

## UPDATE

1. Access \_\_\_\_\_
2. Description of Site At this time (April 1988) only one partial stone circle and a cairn were extant features at the site. A sparse surface and subsurface lithic scatter were also documented.
3. Description of Cultural Materials (Quantify and identify) \_\_\_\_\_  
SEE ATTACHED TABLE - All observed materials collected  
  
\_\_\_\_\_ # of items of cultural material observed      \_\_\_\_\_ # Collected
4. Artifact Repository \_\_\_\_\_
5. Description of Subsurface Testing Two 1m x 1m excavation units and 67 8cm diameter solid cores. All matrix screened through ¼ and 1/8" screens.

Field Code \_\_\_\_\_

Descriptive Section

SITS Number 32MN228

Page 3 UPDATE

6. Current Use of Site \_\_\_\_\_
7. Owner's Name/Address \_\_\_\_\_
8. Vegetation \_\_\_\_\_
9. Cover (% of visible ground) \_\_\_\_\_
10. Man-hours spent on site 80
11. Project Title U.S. Army Corps of Engineers - Contract # DACW45-88-PO581  
P.I. Dr. L. Adrien Hannus
12. Report Title Archeological Testing of Sites 32MN228 and 32MN331, White Earth Bay Area  
of Lake Sakakawea, Mountrail Co., N.D. Author Winham, Lueck, Rossum, Hannus
13. Other Published References Gnabasik, Virginia 1988 White Earth Bay Cottage Site,  
Cultural Resources Survey, Garrison Dam/Lake Sakakawea Project, Mountrail Co, ND.  
Ms on file, U.S. Army Corps of Engineers, Riverdale, ND/Omaha, NE.
14. Description of Collections Observed \_\_\_\_\_
15. Owner-Address of Collections Observed \_\_\_\_\_
16. Statement of Integrity Since 1985 there has been further removal of stones and  
some additional development of the area reducing site integrity.
17. Statement of Significance The testing program failed to recover any datable materials  
subsurface features etc., or any additional patterned stone artifacts. All deposits  
were shallow (0-20cm), and the lithic debitage consisted mainly of reduction flakes/  
microflakes from biface thinning/tool maintenance activities. It is believed that the  
testing results are representative of the site as a whole, and while additional data  
of the kind already recovered is present in the site, its significance is not  
considered sufficient to warrant its nomination to the National Register of Historic  
Places.
18. Comments/References \_\_\_\_\_
- Recorded by Peter Winham Date 7-11-88

Field Code \_\_\_\_\_

INDOCS SITE FORM  
Map & Photo Section  
Page 4

UPDATE

SITS Number 32MN228

TOPO:

Photocopy, in 8½"x11" format,  
the portion of the 7.5' U.S.G.S.  
topographic quadrangle that  
shows the location of the site  
and surrounding area. Mark the  
boundaries of the site on the  
photocopy.

Attach the photocopy as a  
separate page of the Site  
Form following the Map &  
Photo Section.

SITE  
PHOTO

B.W. ☐ Color ☐

Photo I.D. Code \_\_\_\_\_

Storage Location \_\_\_\_\_

SKETCH MAP

Sketch Map:

Include north arrow,  
individual numbered  
features, artifact  
loci, and road or  
street names.

Architectural sites:  
include roof ridge(s)  
and dimensions of  
site.

Map Key:

SEE ATTACHED SHEET

Map Scale:

Recorded by Peter Winham

Date 7-11-88

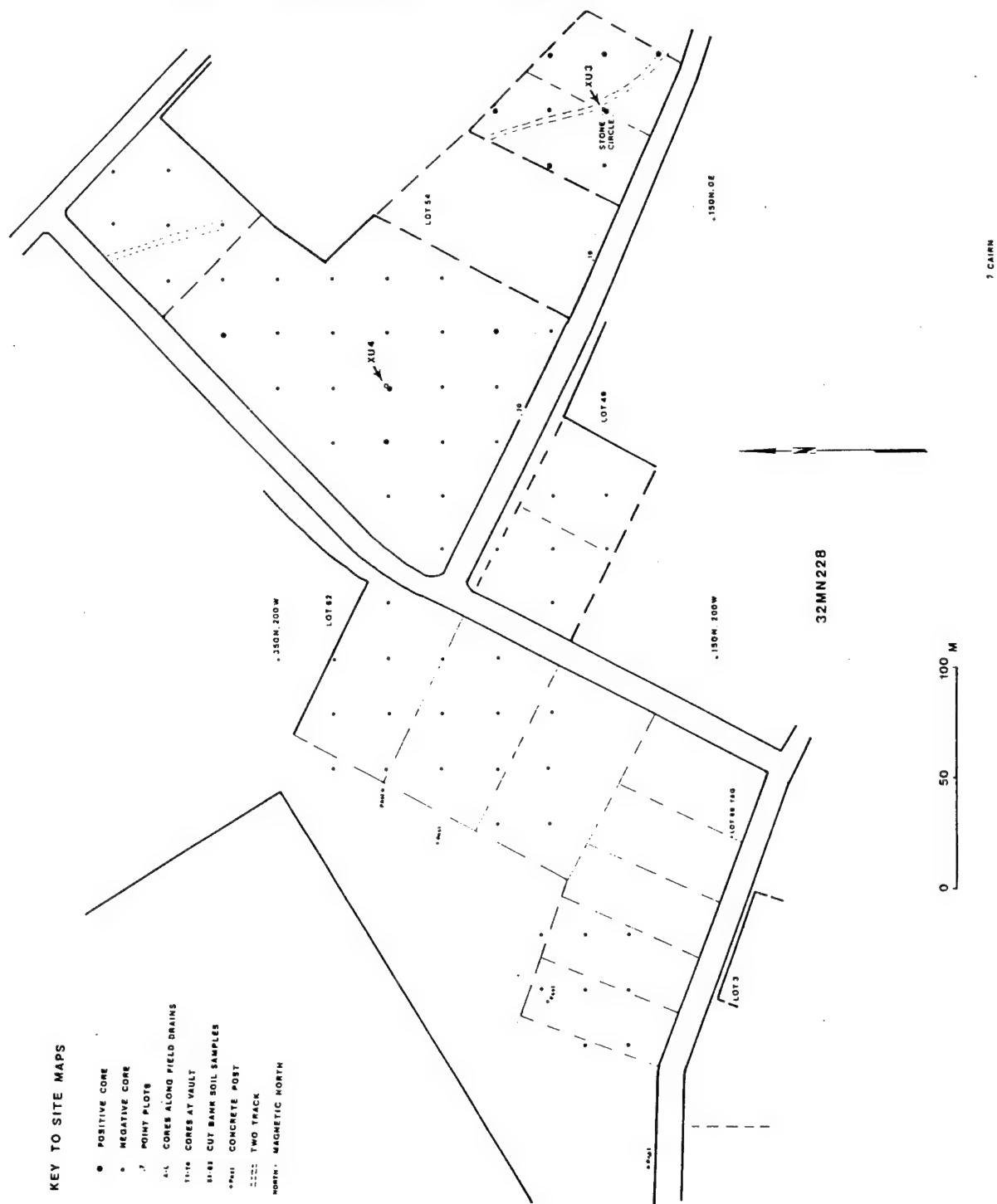
## 32MN228

Assemblage Component	Percentage by		
	Number	Weight	Number items
Knife River Flint	74.8	42.8	128
Chert	8.2	49.1	14
Chalcedony	10.5	1.6	18
Porcelanite	4.7	3.6	8
Quartzite	1.2	2.4	2
Basalt-like	0.6	0.4	1
TOTALS	Number	171	
	Weight	132.7	
	Percentage	100	99.9

Assemblage Component	Number	Weight
Bone: a) dentine	1	0.4
b) fragments	14	7.1
c) burned	31	1.1
Fire-cracked Rock	3	122.3
Seeds	71	-
Charcoal	1	-
Mineralized Bone/Wood	14	8.3
Yellow Ochre	1	0.3

# KEY TO SITE MAPS

- POSITIVE CORE
- NEGATIVE CORE
- △ POINT PLOTS
- 4-4 CORERS ALONG FIELD DRAINS
- 1-1-16 CORERS AT VAULT
- 8-4-1 CUT BANK SOIL SAMPLES
- 4-PA-1 CONCRETE POST
- 2-2-2 TWO TRACK
- NORTH - MAGNETIC NORTH



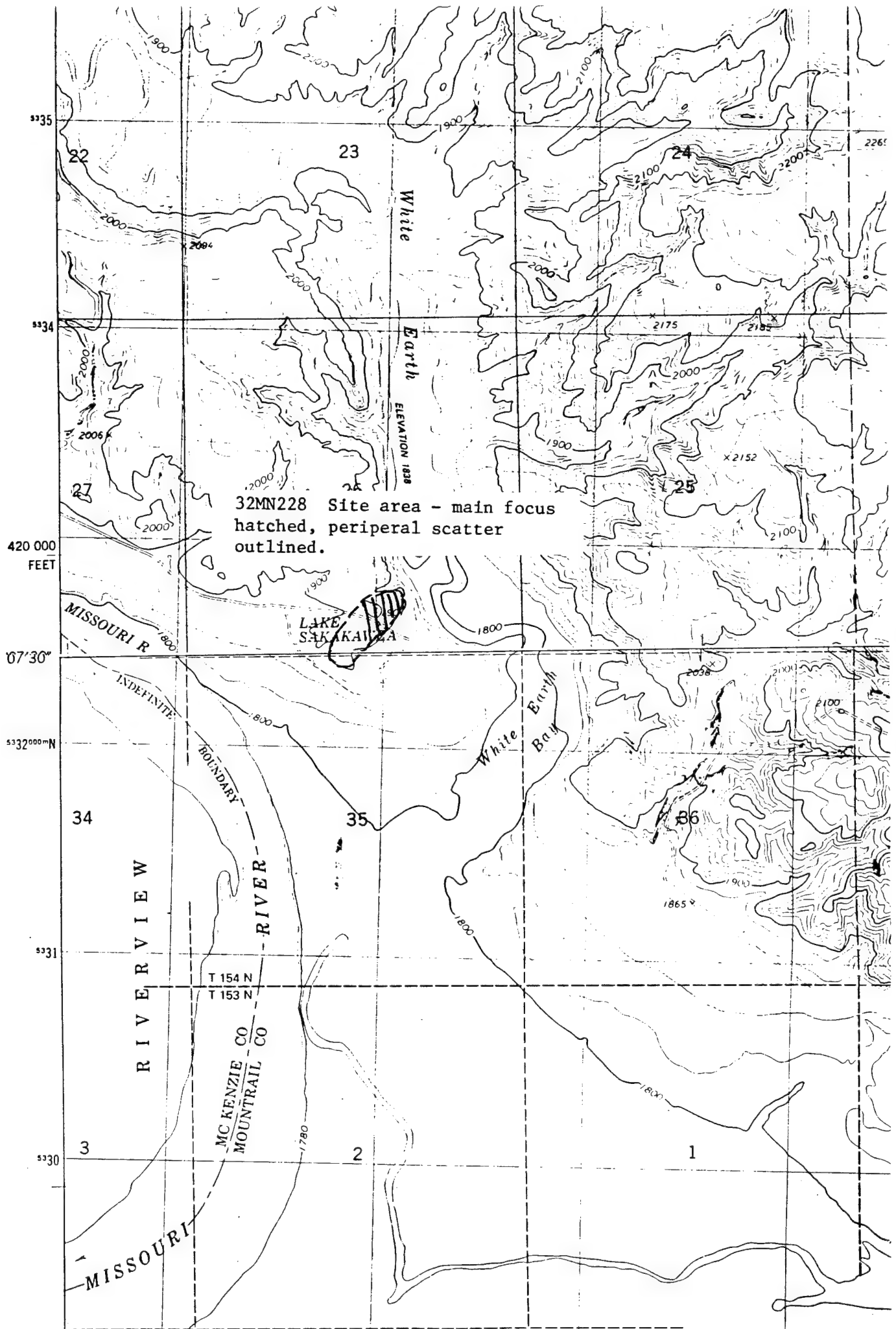
DATUM  
0.0

7 CAIRN

32MN228

0 50 100 M





SITS # 3,2 M,N 3,3,1  
State County Site NumberField Code \_\_\_\_\_ Site Name \_\_\_\_\_  
Field Code \_\_\_\_\_ Site Name \_\_\_\_\_Map Quad R,A,T L,A,K,E SW \_\_\_\_\_Map Quad R,A,T L,A,K,E \_\_\_\_\_

LTL	Twp	<u>1,5,4</u>	R	<u>0,9,4</u>	Sec	<u>3,5</u>	QQQ	<u>18</u>	QQ	<u>5</u>	Q	<u>5</u>
LTL	Twp	<u>1,5,4</u>	R	<u>0,9,4</u>	Sec	<u>3,5</u>	QQQ	<u>1</u>	QQ	<u>8</u>	Q	<u>5</u>
LTL	Twp	<u>1,5,4</u>	R	<u>0,9,4</u>	Sec	<u>2,6</u>	QQQ	<u>6</u>	QQ	<u>7</u>	Q	<u>6</u>
LTL	Twp	<u>1,5,4</u>	R	<u>0,9,4</u>	Sec	<u>2,6</u>	QQQ	<u>7</u>	QQ	<u>6</u>	Q	<u>6</u>
LTL	Twp	_____	R	_____	Sec	_____	QQQ	_____	QQ	_____	Q	_____
LTL	Twp	_____	R	_____	Sec	_____	QQQ	_____	QQ	_____	Q	_____

1. N  
2. E  
3. S  
4. W  
5. NE  
6. SE  
7. SW  
8. NW  
9. C

## FEATURE TYPE

- ☐ Conical Timber Lodge  
☐ CM Scatter  
☐ Earthlodge Village  
☐ Earthworks  
☐ Fortification  
☐ Grave  
☐ Hearth  
☐ Jump  
☐ Mound  
☐ Other Rock Features  
☐ Pit  
☐ Quarry/Mine  
☐ Rock Art  
☐ Rock Shelter  
☐ Stone Circle  
☐ Trail  
☐ Miscellaneous  
☐ Isolated Find

## CULTURAL MATERIAL

- ☐ Bone  
☒ Ceramics  
☒ Charcoal  
☐ Copper  
☒ Faunal Remains  
☒ Fire Cracked Rock  
☒ Floral Remains  
☐ Fossil  
☐ Hide, Hair, Fur  
☐ Human Remains  
☐ Projectile Point  
☐ Shell  
☒ Stone, Chipped  
☒ Stone, Ground  
☐ Trade Good  
☐ Wood  
☐ Other

\_\_\_\_\_ <sup>m.</sup> <sup>x</sup> <sup>m.</sup> Site Area  
\_\_\_\_\_ <sup>m.</sup> Cultural Depth  
\_\_\_\_\_ Depth Indicator

CULTURAL/TEMPORAL  
AFFILIATION

- =====  
☐ Paleo  
☐ Archaic  
☒ Late Prehistoric  
☐ Historic  
☒ Period Unknown

☐ CM Density☒ Basis for Dating

<input type="checkbox"/> Landform 1	<input type="checkbox"/> Landform 2	<input type="checkbox"/> Slope/Exposure	<input type="checkbox"/> Ecosystem
<input type="checkbox"/> Landform 1	<input type="checkbox"/> Landform 2	<input type="checkbox"/> Slope/Exposure	<input type="checkbox"/> Ecosystem
Elevation	Drainage System	View, Degree	View, Distance

\_\_\_\_\_ m. \_\_\_\_\_

Dist Perm Water	Perm Water Type	Dist Seas Water	Seas Water Type
_____ m.	_____	_____ m.	_____

☐ Ownership☐ Ownership10,412,818,8 Fieldwork Date10,510,418,8 Fieldwork Date☒ Site Condition☒ Collection☒ Test/Probe☐ Excavation

Additional Information

☒ Management Recommendation☐ Soil Association ☐ Ecozone ☐ Area Signf \_\_\_\_\_ MS Number☐ Soil Association ☐ Ecozone ☐ Area Signf \_\_\_\_\_ MS Number☐ CR Type☐ Verified Site☐ Non-Site☐ E C F ☐ T F☐ State Registry☐ National RegisterCoder Peter WinhamDate Coded 7-11-88

I. SITE I.D.

II. SITE DESCRIPTION

III. ENVIRONMENT

IV. C.R.M.

SHSND USE

UPDATE

1. Access \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
2. Description of Site In addition to the surface scatter previously recorded, testing indicated a buried, earlier component in the area of the site between the Bait Shop and the boat ramp. This component is defined on the basis of more deeply buried material (30-60cm) and more heavily patinated Knife River Flint debitage at this depth.

3. Description of Cultural Materials (Quantify and identify) \_\_\_\_\_  
SEE ATTACHED TABLE - All observed materials collected

SEE ATTACHED TABLE - All observed materials collected

# of items of cultural material observed

# Collected

4. Artifact Repository \_\_\_\_\_
5. Description of Subsurface Testing Four 1m x 1m excavation units and 124 8cm diameter solid cores. All matrix screened through 1/4 and 1/8th" screens. In addition to soil samples from the excavation units, two samples were collected from the cut bank.

Recorded by Peter Winham

Date 7-11-88

Field Code \_\_\_\_\_

Descriptive Section

SITS Number 32MN331

Page 3

UPDATE

6. Current Use of Site \_\_\_\_\_
7. Owner's Name/Address \_\_\_\_\_
8. Vegetation \_\_\_\_\_
9. Cover (% of visible ground) \_\_\_\_\_
10. Man-hours spent on site 120
11. Project Title U.S. Army Corps of Engineers - Contract # DACW45-88-P0581  
P.I. Dr. L. Adrien Hannus
12. Report Title Archeological Testing of Sites 32MN228 and 32MN331, White Earth Bay Area  
of Lake Sakakawea, Mountrail Co., N.D. Author Winham, Lueck, Rossum, Hannus
13. Other Published References Gnabasik, Virginia 1988 White Earth Bay Cottage Site,  
Cultural Resources Survey, Garrison Dam/Lake Sakakawea Project, Mountrail Co, ND.  
Ms on file, U.S. Army Corps of Engineers, Riverdale, ND/Omaha NE.
14. Description of Collections Observed \_\_\_\_\_
15. Owner-Address of Collections Observed \_\_\_\_\_
16. Statement of Integrity Site integrity has declined since 1985. There have been  
additional disturbances in the area, particularly the plowing of a wide strip across  
the center of the site for tree plantings.
17. Statement of Significance No datable materials were recovered and no subsurface  
features observed. The upper/surface component was extensively examined and what is  
considered a representative sample of data obtained. The lower component was only  
observed in one test unit, and appears to be very limited in content and extent. While  
additional information is present at this site, it is limited. Given the overall  
condition of the site and perceived significance of the database, the site is not  
considered eligible for nomination to the National Register of Historic Places.  
However, if impacts to the area containing the earlier component are proposed (i.e.,  
around XU2) it is recommended that the nature and extent of this lower component be  
further evaluated.
18. Comments/References \_\_\_\_\_

Recorded by Peter WinhamDate 7-11-88

## TOPO:

Photocopy, in 8½"x11" format,  
the portion of the 7.5' U.S.G.S.  
topographic quadrangle that  
shows the location of the site  
and surrounding area. Mark the  
boundaries of the site on the  
photocopy.

Attach the photocopy as a  
separate page of the Site  
Form following the Map &  
Photo Section.

SITE  
PHOTO

B.W. ☐ Color ☐

Photo I.D. Code \_\_\_\_\_

Storage Location \_\_\_\_\_

## SKETCH MAP

## Sketch Map:

Include north arrow,  
individual numbered  
features, artifact  
loci, and road or  
street names.

Architectural sites:  
include roof ridge(s)  
and dimensions of  
site.

SEE ATTACHED SHEET

## Map Key:

Map Scale:

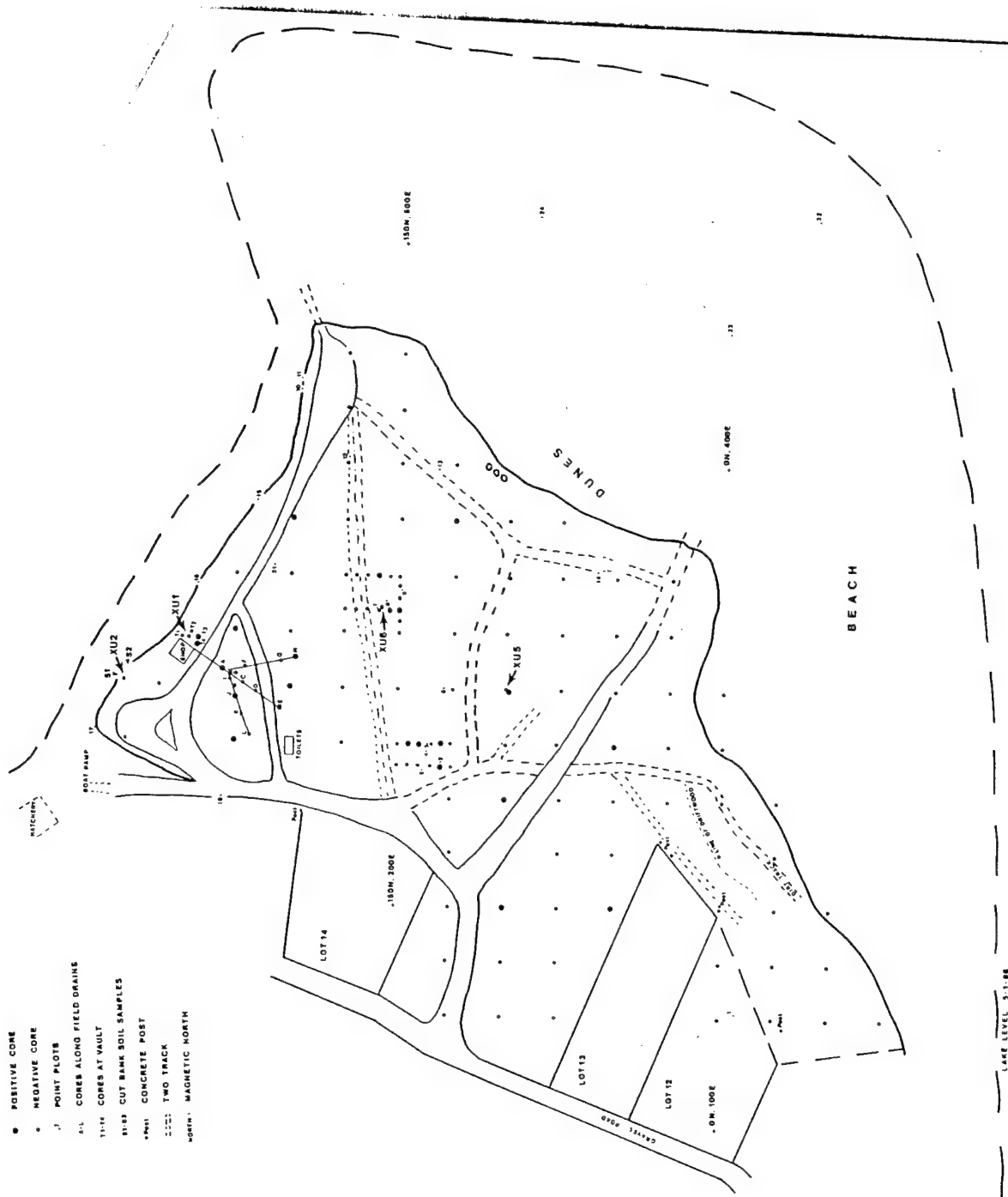
## 32MN331

Assemblage Component	Percentage by		Number items
	Number	Weight	
Knife River Flint	57.6	67.8	422
Chert	21.1	18.9	155
Chalcedony	14.7	2.2	108
Porcelanite	5.1	3.3	37
Quartzite	1.0	0.6	7
Quartz	0.1	4.2	1
Obsidian	0.1	-	1
Tongue River Silica	0.3	2.9	2
TOTALS	Number	733	
	Weight	392.8	
	Percentage	100	99.9

Assemblage Component	Number	Weight
Ceramic	1	2.0
Ground Stone	24	434.5
Fish Scale	1	-
Burned Earth	1	-
Bone: a) dentine	94	11.5
b) fragments	240	51.2
c) burned	82	7.8
Fire-Cracked Rock	23	1435.5
Seeds	512.5	-
Charcoal	74	0.1
Mineralized Bone/Wood	-	-
Yellow Ochre	-	-

# KEY TO SITE MAPS

- POSITIVE CORE
- NEGATIVE CORE
- POINT PLOTS
- CORES ALONG FIELD DRAINS
- CORES AT VAULT
- CUT BANK SOIL SAMPLES
- CONCRETE POST
- TWO TRACK
- MAGNETIC NORTH

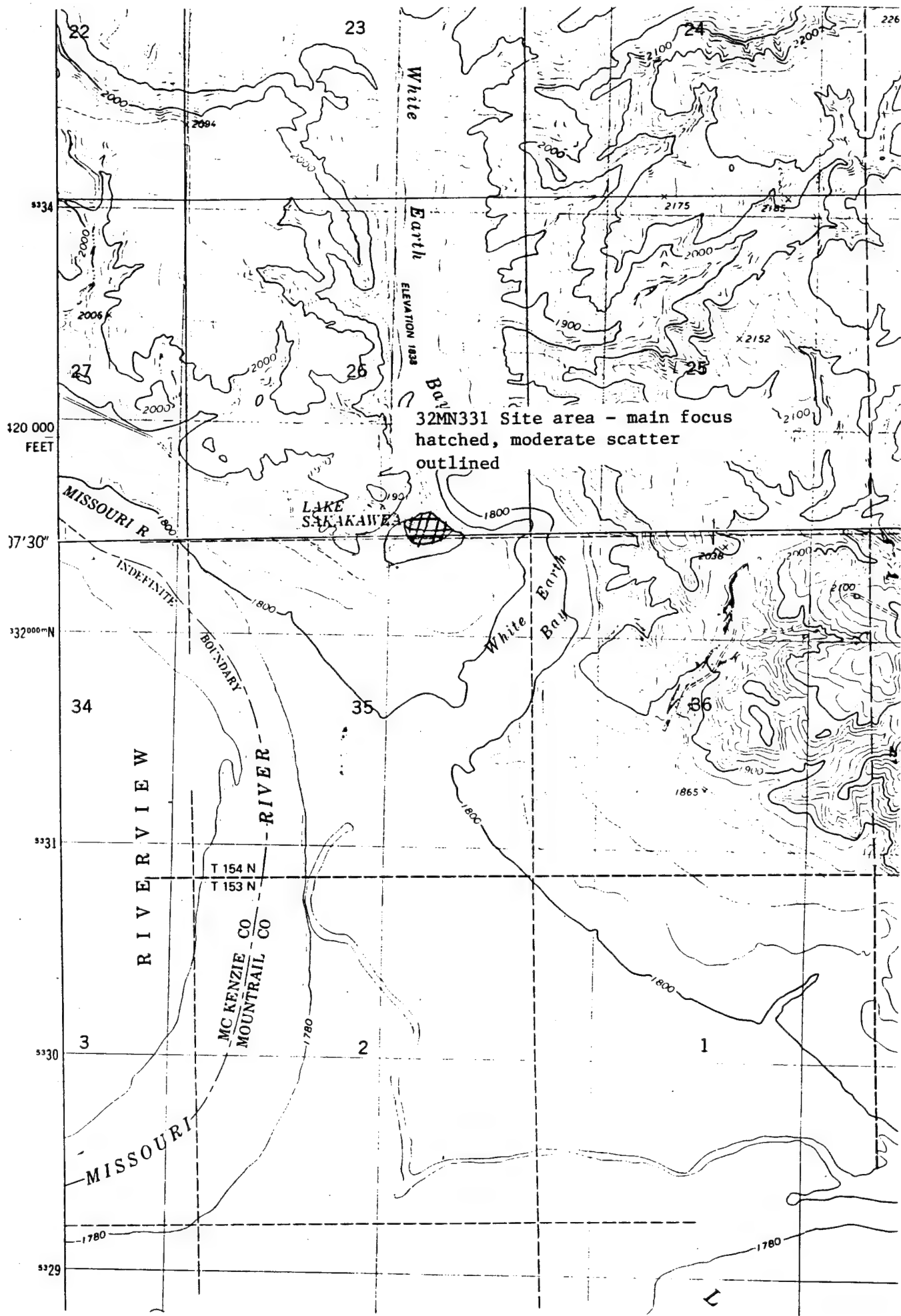


32MN331

LOT 12  
AT CORNER  
DRAINAGE  
0.0



LAKE LEVEL 5-1-88





APPENDIX H

POLLEN REPORT

springfield  
illinoisillinois  
state  
museum

August 17, 1988

Dr. L. Adrien Hannus  
Archeology Laboratory,  
Center for Western Studies  
Augustana College  
2032 South Grange Avenue  
Sioux Falls, SD 57105

Dear Adrien,

Enclosed are reports for the two pollen samples you sent me. Pietra Mueller, my assistant, reported that someone had called about them while I was on vacation. I did not realize a deadline was imminent. Sorry for any inconvenience.

Not surprisingly, the samples contain very little pollen, and what is there is poorly preserved. The very low concentration of pollen (500 - 2000 grains/ml) could easily be accounted for by minor bioturbation. As a way of comparison, a typical lake sediment that has accumulated at a rate of 1 mm/yr may have on the order of 100,000 grains/ml. I do not believe the pollen has any interpretive value and therefore did not make larger counts, which would be very time consuming.

I had a very interesting excursion to Rob Bonnicksen's sites in southwestern Montana. I shall relate when I see you in the future.

Yours sincerely,



Dr. Eric C. Grimm  
Associate Curator of Botany

Site 32MN228 XU3 POLLEN 15-20 cm.

Prep 31 May 88 (P. Mueller); Slide 32MN228-1 16 Aug 88; Count 16 Aug 88 (ECG)

(Pollen prep contains much highly resistant organic material, relatively little charcoal, low density of poorly preserved pollen)

/47.ON/...../46.OS

/...G56...X46G1..M4.....K48...../45.ON/

...../44.OS/

.....R4..R458...../43.ON/

...../42.OS/

...../41.ON/

.....K46.....K46..R46.....PQ24[ENGELHARDTIA-TYPE]...../

40.OS/MW23...../39.ON/...../38.OS/

.K46.....PQ4[ENGELHARDTIA-TYPE].

Site 32MN228 XU3 POLLEN 15-20 cm.

Prep 31 May 88 (P. Mueller); Slide 32MN228-1 16 Aug 88; Count 16 Aug 88 (ECG)

TABLE OF COUNTS AND PERCENTAGES

-----  
TREES AND SHRUBS  
-----

** SUM TREE AND SHRUB POLLEN		.0	.00
------------------------------	--	----	-----

-----  
UPLAND HERBS  
-----

Ambrosia-type	M	1.0	10.00
Artemisia	R	3.0	30.00
Chenopodaceae/Amaranthaceae undiff.	K	4.0	40.00
Poaceae	G	2.0	20.00
** SUM PRAIRIE TYPES		10.0	100.00

BASIC POLLEN SUM		10.0	
------------------	--	------	--

-----  
TYPES BASED ON TOTAL POLLEN SUM  
-----

Pre-Quaternary undiff.	PQ	2.0	14.29
Monolete spore undiff.	MW	1.0	7.14
Indeterminable	X	1.0	7.14

TOTAL POLLEN SUM		14.0	
------------------	--	------	--

-----  
Volume of sample = 4.0 ml

Concentration of Microspheres in suspension = 88000 per ml

Volume of Microspheres suspension added = .5 ml

Number of Microspheres counted was 316

Ratio of total pollen sum/Microspheres = .044

Concentration of pollen in sample = 487. grains/ml

Number of traverses = 10

Avg number of grains per traverse = 1.40

REMARKS

PQ24 [ENGELHARDTIA-TYPE]

PQ4 [ENGELHARDTIA-TYPE]

Site 32MN228 XU3 POLLEN 15-20 cm.

Prep 31 May 88 (P. Mueller); Slide 32MN228-1 16 Aug 88; Count 16 Aug 88 (ECG)

TABULATION BY PRESERVATION CODE

SYM	1	4	23	24	46	48	56	458
-----	---	---	----	----	----	----	----	-----

G	1.	0.	0.	0.	0.	0.	1.	0.
✓	0	0	0	0	0	0	0	0

M	0.	1.	0.	0.	0.	0.	0.	0.
R	0.	1.	0.	0.	1.	0.	0.	1.
X	0.	0.	0.	0.	1.	0.	0.	0.
MW	0.	0.	1.	0.	0.	0.	0.	0.
PQ	0.	1.	0.	1.	0.	0.	0.	0.

CODE	TOTAL	PERCENT
------	-------	---------

1	1.0	7.14
4	3.0	21.43
23	1.0	7.14
24	1.0	7.14
46	5.0	35.71
48	1.0	7.14
56	1.0	7.14
458	1.0	7.14

0	.0	.00
1	1.0	7.14
2	2.0	14.29
3	1.0	7.14
4	11.0	78.57
5	2.0	14.29
6	6.0	42.86
7	.0	.00
8	2.0	14.29
9	.0	.00

Site 32MN331 XU2 POLLEN 25-30 cm.

Prep 31 May 88 (F. Mueller); Slide 32MN331-1 16 Aug 88; Count 17 Aug 88 (EDG)

(Prepared sample contains abundant resistant organic matter and charcoal, low density of poorly preserved pollen)

/47.ON/M4.....K456../46.OS/.....R4....X46../45.ON/

.....X4V4.R4.LG46...LG46...../44.OS/

.....K46.....X46.LG46.V46.....LG48.....R4../43.ON/

.K456.....Y46...X46...PQ4[P3]...../42.OS/

.....LG46.....X48/41.ON/.P4...X4.....X4.....TW4[PQ]

/40.OS/.....TW4[PQ].X4...PQ4[C3]P40...X4P40P40..LG46...../39.ON/

.....LG46..R4.../38.OS/.....X4.X4.....V46..R46..V46.

Site 32MN331 XU2 POLLEN 25-30 cm.

Prep 31 May 88 (P. Mueller); Slide 32MN331-1 16 Aug 88; Count 17 Aug 88 (ECG)

TABLE OF COUNTS AND PERCENTAGES

TREES AND SHRUBS

Pinus undiff.	P	2.5	10.64
** SUM TREE AND SHRUB POLLEN		2.5	10.64

UPLAND HERBS

Ambrosia-type	M	1.0	4.26
Artemisia	R	5.0	21.28
Chenopodaceae/Amaranthaceae undiff.	K	3.0	12.77
Cyperaceae	Y	1.0	4.26
Asteraceae subfam. Liguliflorae	LG	7.0	29.79
Asteraceae subfam. Tubuliflorae undiff.	V	4.0	17.02

BASIC POLLEN SUM 23.5

TYPES BASED ON TOTAL POLLEN SUM

Pre-Quaternary undiff.	PQ	2.0	5.19
Trilete spore undiff.	TW	2.0	5.19
Indeterminable	X	11.0	28.57

TOTAL POLLEN SUM 38.5

Volume of sample = 4.0 ml

Concentration of Microspheres in suspension = 88000 per ml

Volume of Microspheres suspension added = .5 ml

Number of Microspheres counted was 205

Ratio of total pollen sum/Microspheres = .188

Concentration of pollen in sample = 2066. grains/ml

Number of traverses = 10

Avg number of grains per traverse = 3.85

REMARKS

PQ4	[P3]	triporate
TW4	[PQ]	Pre-Quaternary
TW4	[PQ]	Pre-Quaternary
PQ4	[C3]	tricolpate

32MN331 XU2 POLLEN 25-30 cm.

Prep 31 May 88 (P. Mueller); Slide 32MN331-1 16 Aug 88; Count 17 Aug 88 (ECG)

TABULATION BY PRESERVATION CODE

SYM	4	40	46	48	456
K	0.	0.	2.	0.	2.
M	1.	0.	0.	0.	0.
P	1.	2.	0.	0.	0.
R	4.	0.	1.	0.	0.
V	1.	0.	4.	0.	0.
X	11.	0.	3.	2.	0.
Y	0.	0.	1.	0.	0.
LG	0.	0.	6.	2.	0.
PG	2.	0.	0.	0.	0.
TW	2.	0.	0.	0.	0.

CODE	TOTAL	PERCENT
4	22.0	57.14
40	1.5	3.90
46	17.0	44.16
48	4.0	10.39
456	2.0	5.19
0	1.5	3.90
1	.0	.00
2	.0	.00
3	.0	.00
4	38.5	100.00
5	2.0	5.19
6	17.0	44.16
7	.0	.00
8	2.0	5.19
9	.0	.00



# Report of Pollen Investigation of Site 32MN331

Eric C. Grimm  
Associate Curator of Botany  
Illinois State Museum

17 August 1988

---

Sample: 32MN331  
XU - 2  
Pollen Sample  
25-30 cm  
4-30-88  
EL

Material: dry soil in whirl-pak bag. Contains rootlets.

## Preparation:

Sample size: 4 cc  
Treatments: 10% HCl pre-treatment to remove carbonates  
10% KOH to remove humic acids (16 subsequent H<sub>2</sub>O washes to completely remove humics)  
Sieve through gooch crucible to remove coarse material (sand grains and rootlets)  
48% HF to remove silicates (1 hr + 3 hr + 3 hr + 3 hr; each treatment followed by wash with conc. HCl to remove decomposition products)  
Acetolysis (5 ml acetic anhydride + 0.5 ml conc. sulfuric acid) to remove organics.  
Stain with safranin  
Add polystyrene microspheres for pollen concentration estimate (0.5 ml suspension, 88000 microspheres/ml)  
Dehydrate with t-butyl alcohol  
Mount in silicone oil (2000 cs)

## Results:

Preparation produced a concentrate consisting of highly resistant organic matter and much charcoal. Silicates were completely removed. Initial microscopic examination showed that density of pollen in concentrate was very low, and pollen was very poorly preserved. A slide was then prepared and 10 transects counted at 1 mm intervals (one-half slide). All pollen was highly degraded. Pollen concentration was very low (est. 2066 grains/ml). Only 38.5 grains were encountered:

Pinus undiff.	2.5
Ambrosia-type	1.0
Artemisia	5.0
Chenopodiaceae/Amaranthaceae	3.0
Cyperaceae	1.0
Asteraceae subfam. Liguliflorae	7.0
Asteraceae subfam. Tubuliflorae undiff.	4.0

Pre-Quaternary (triporate)	1.0
Pre-Quaternary (tricolpate)	1.0
Pre-Quaternary trilete spores	2.0
Indeterminable	11.0

#### Interpretation:

The very low concentration and poor preservation of the pollen makes any vegetational interpretation impossible. Pollen representation is undoubtedly biased by differential preservation. The very small quantity of pollen in the soil could easily have been mixed in by modest bioturbation by earthworms or other soil organisms.

Attachment: Count sheet.

Pollen preservation codes are

- 0 half grains
- 4 degraded
- 5 thinned
- 6 crumpled
- 8 broken

# Report of Pollen Investigation of Site 32MN228

Eric C. Grimm  
Associate Curator of Botany  
Illinois State Museum

17 August 1988

---

Sample: 32MN228

XU - 3

Pollen Sample

West Wall Profile

15-20 cm

Material: dry soil in whirl-pak bag. Contains rootlets.

## Preparation:

Sample size: 4 cc

Treatments: 10% HCl pre-treatment to remove carbonates

10% KOH to remove humic acids (13 subsequent H<sub>2</sub>O washes  
to completely remove humics)

Sieve through gooch crucible to remove coarse material  
(many large sand grains)

48% HF to remove silicates (1 hr + 3 hr + 3 hr + 3 hr;  
each treatment followed by wash with conc. HCl to  
remove decomposition products)

Acetolysis (5 ml acetic anhydride + 0.5 ml conc. sulfuric  
acid) to remove organics.

Stain with safranin

Add polystyrene microspheres for pollen concentration  
estimate (0.5 ml suspension, 88000 microspheres/ml)

Dehydrate with t-butyl alcohol

Mount in silicone oil (2000 cs)

## Results:

Preparation produced a concentrate consisting of highly resistant organic matter and some charcoal. Silicates were completely removed. Initial microscopic examination showed that density of pollen in concentrate was very low, and pollen was very poorly preserved. A slide was then prepared and 10 transects counted at 1 mm intervals (one-half slide). All pollen except one grain was highly degraded. Pollen concentration was very low (est. 487 grains/ml). Only 14 grains were encountered:

Ambrosia-type	1.0
Artemisia	3.0
Chenopodiaceae/Amaranthaceae	4.0
Poaceae	2.0
Engelhardtia-type (Pre-Quaternary)	2.0
Monolete spore undiff. (probably Pre-Quat.)	1.0
Indeterminable	1.0

**Interpretation:**

The very low concentration and poor preservation of the pollen makes any vegetational interpretation impossible. Pollen representation is undoubtedly biased by differential preservation. The very small quantity of pollen in the soil could easily have been mixed in by modest bioturbation by earthworms or other soil organisms.

**Attachment:** Count sheet.

Pollen preservation codes are

- 1 well-preserved
- 2 corroded
- 3 perine missing (spores)
- 4 degraded
- 5 thinned
- 6 crumpled
- 8 broken